

FIG. 1.

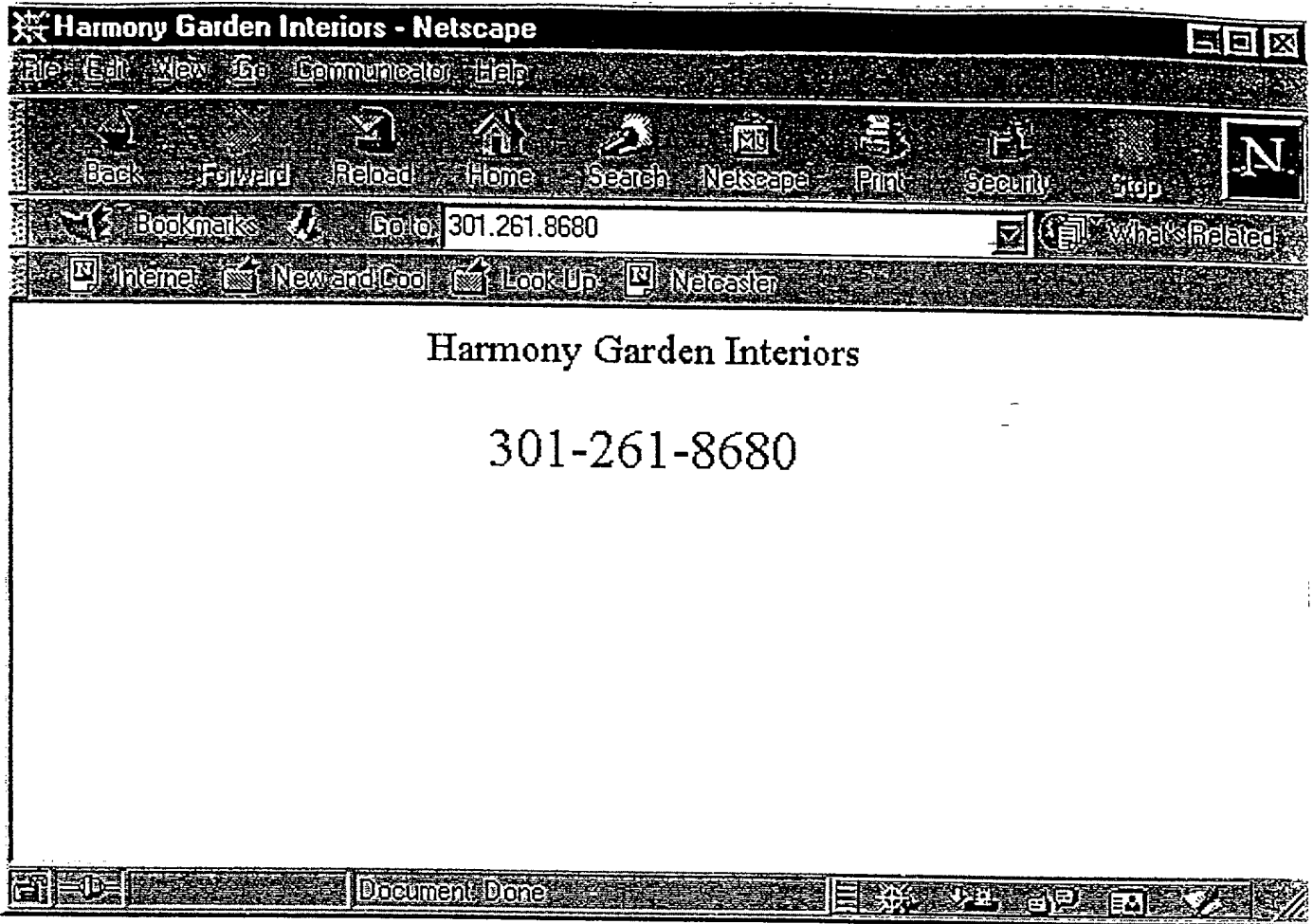


FIG. 2

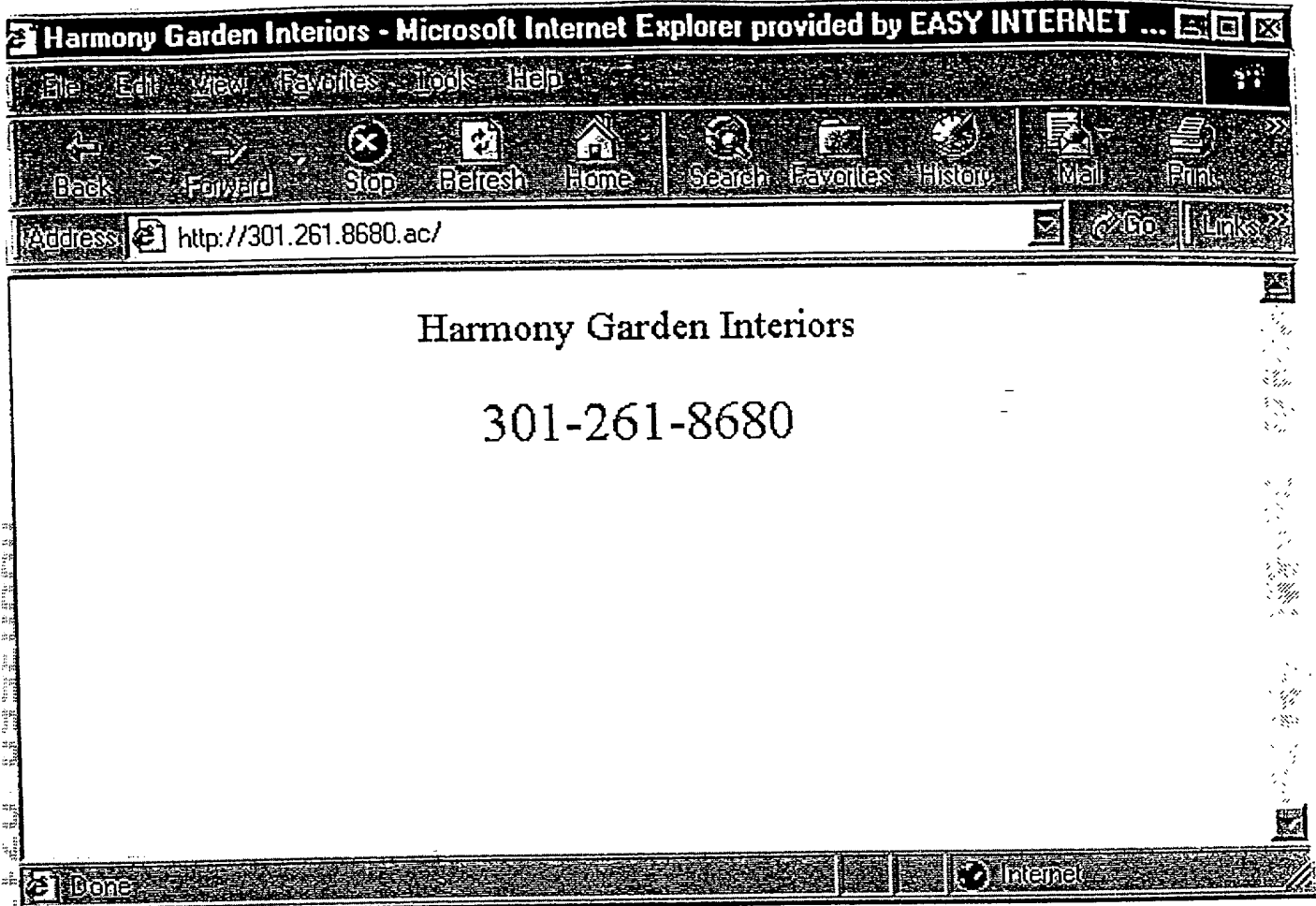


FIG. 3

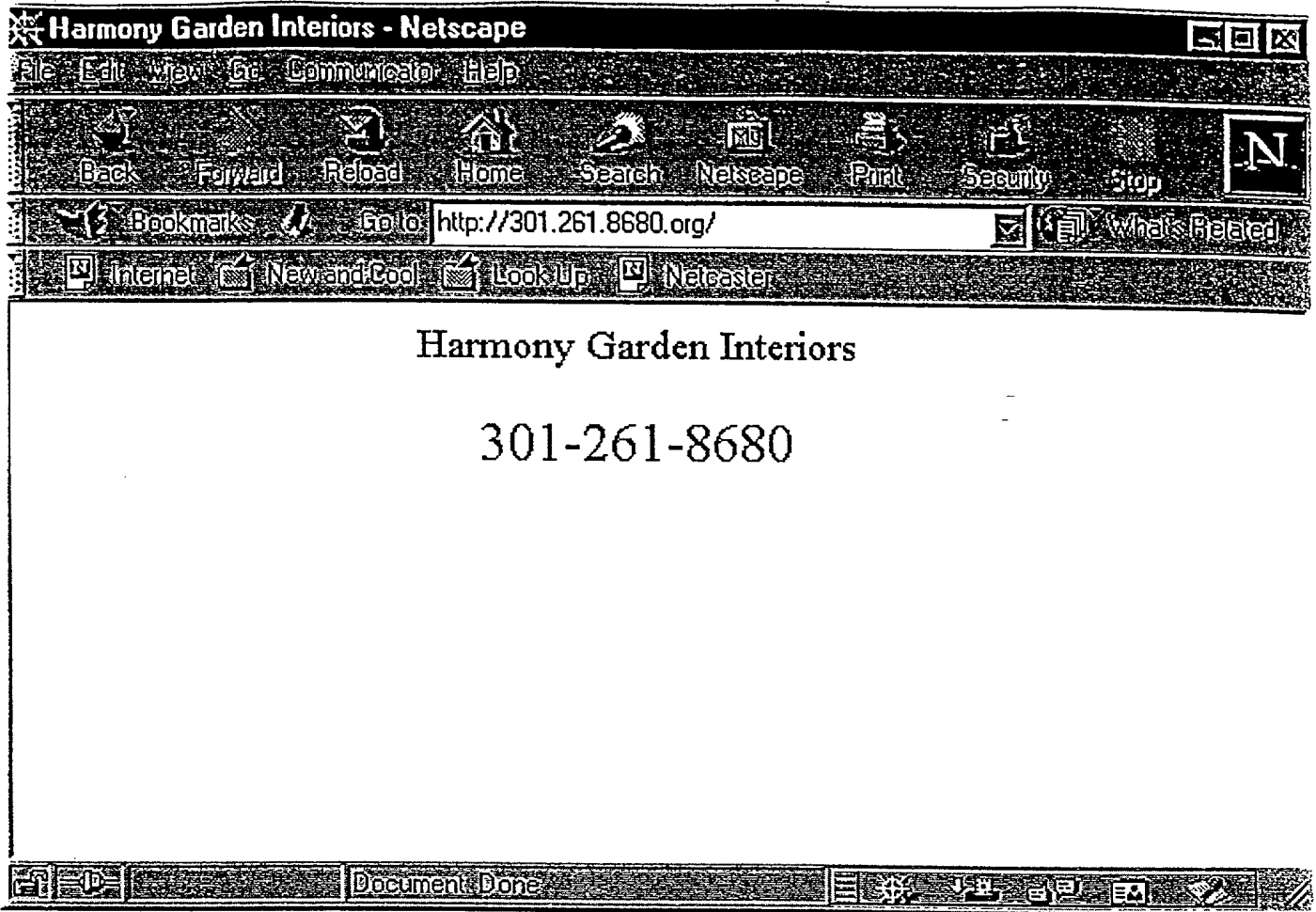


FIG. 4

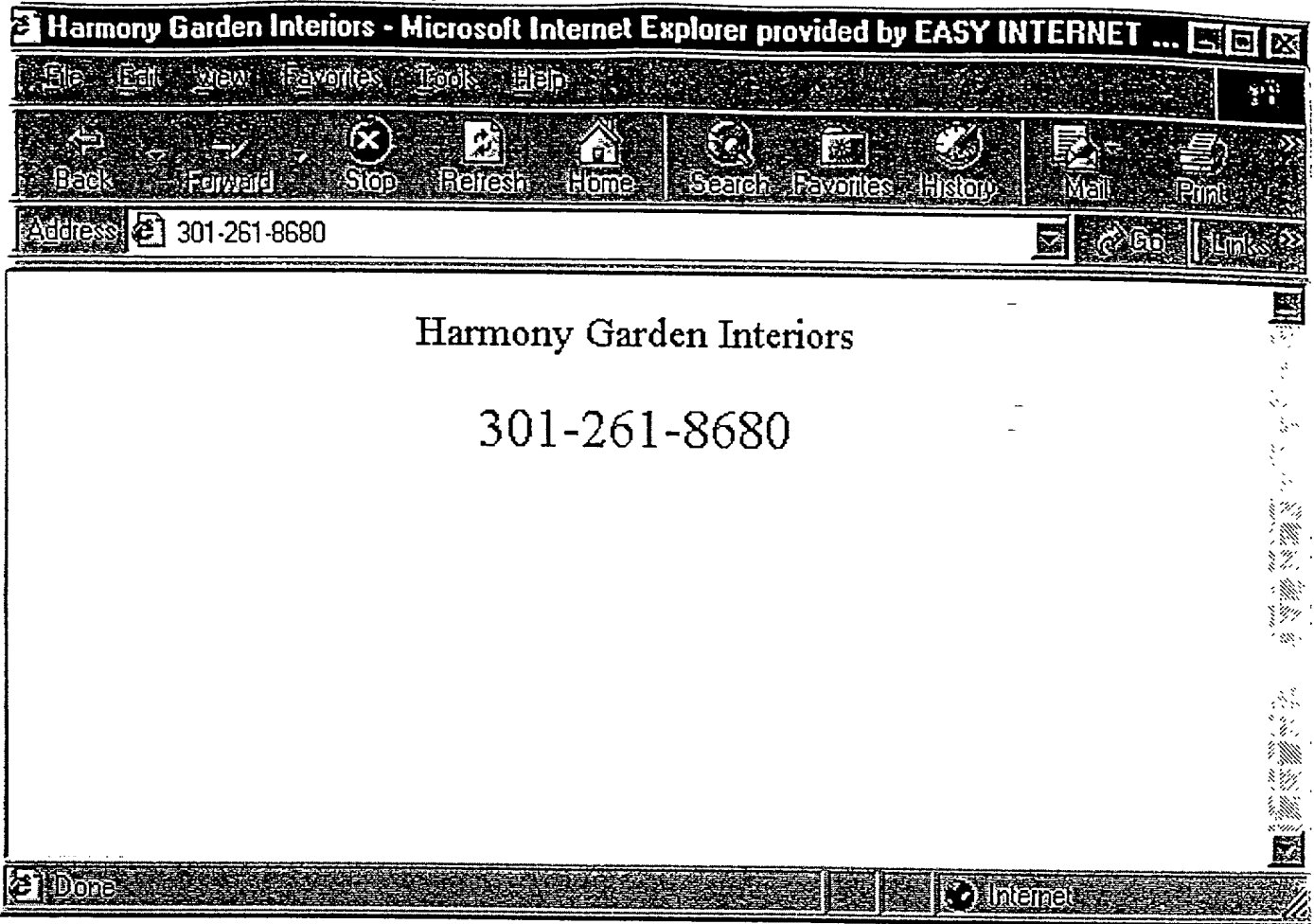


FIG. 5

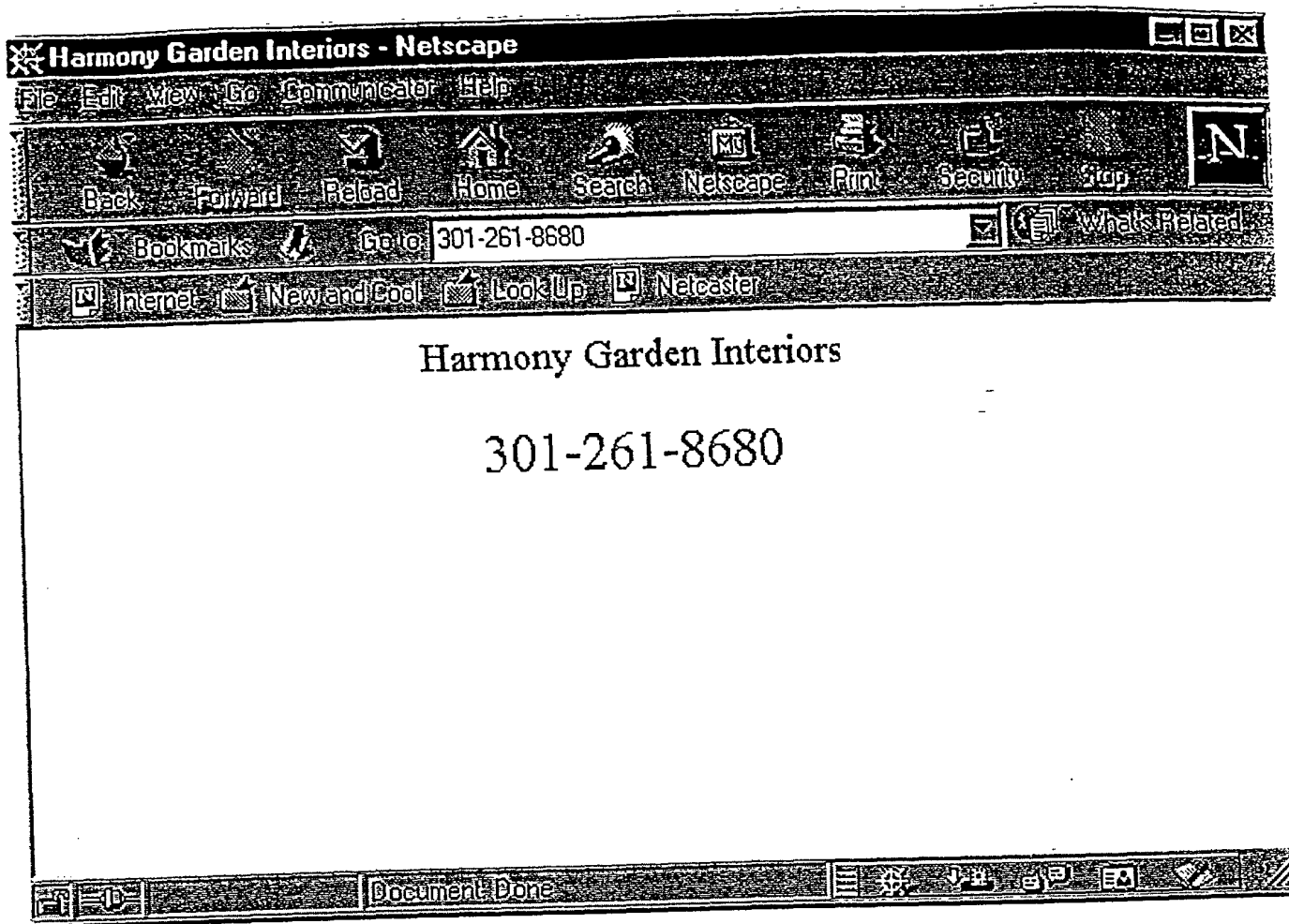


FIG. 6

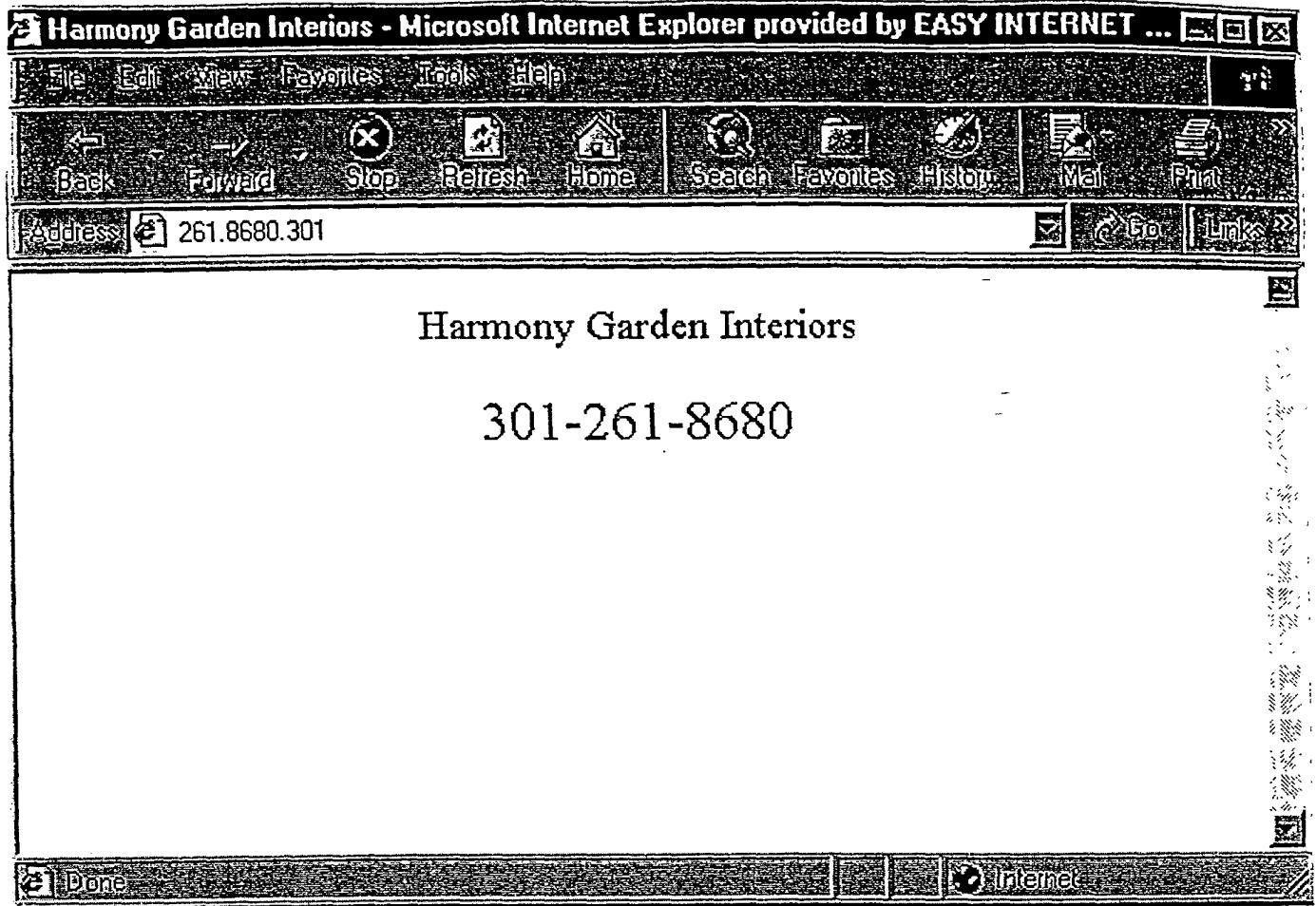


FIG. 7

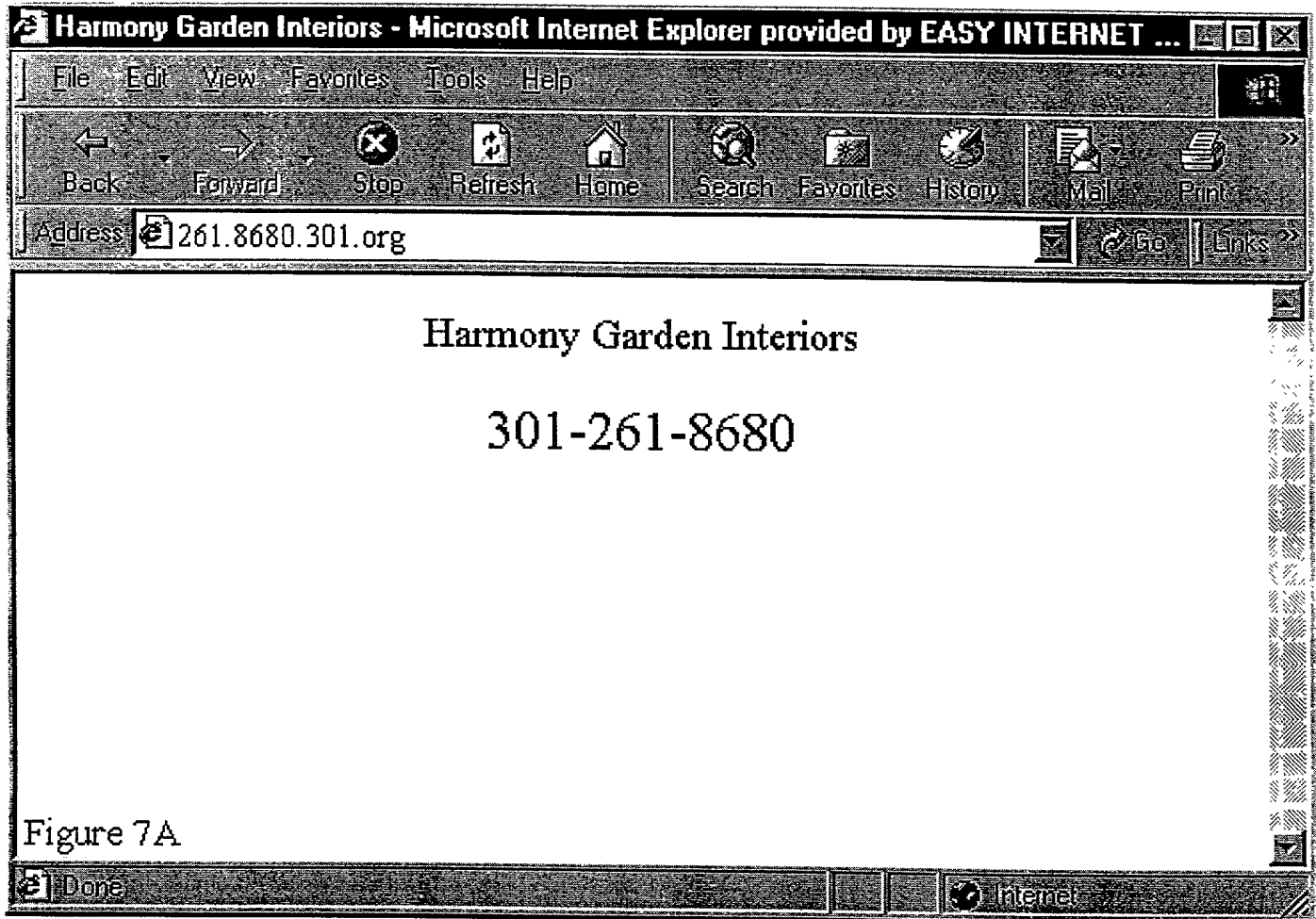


Figure 7A

FIG. 7A

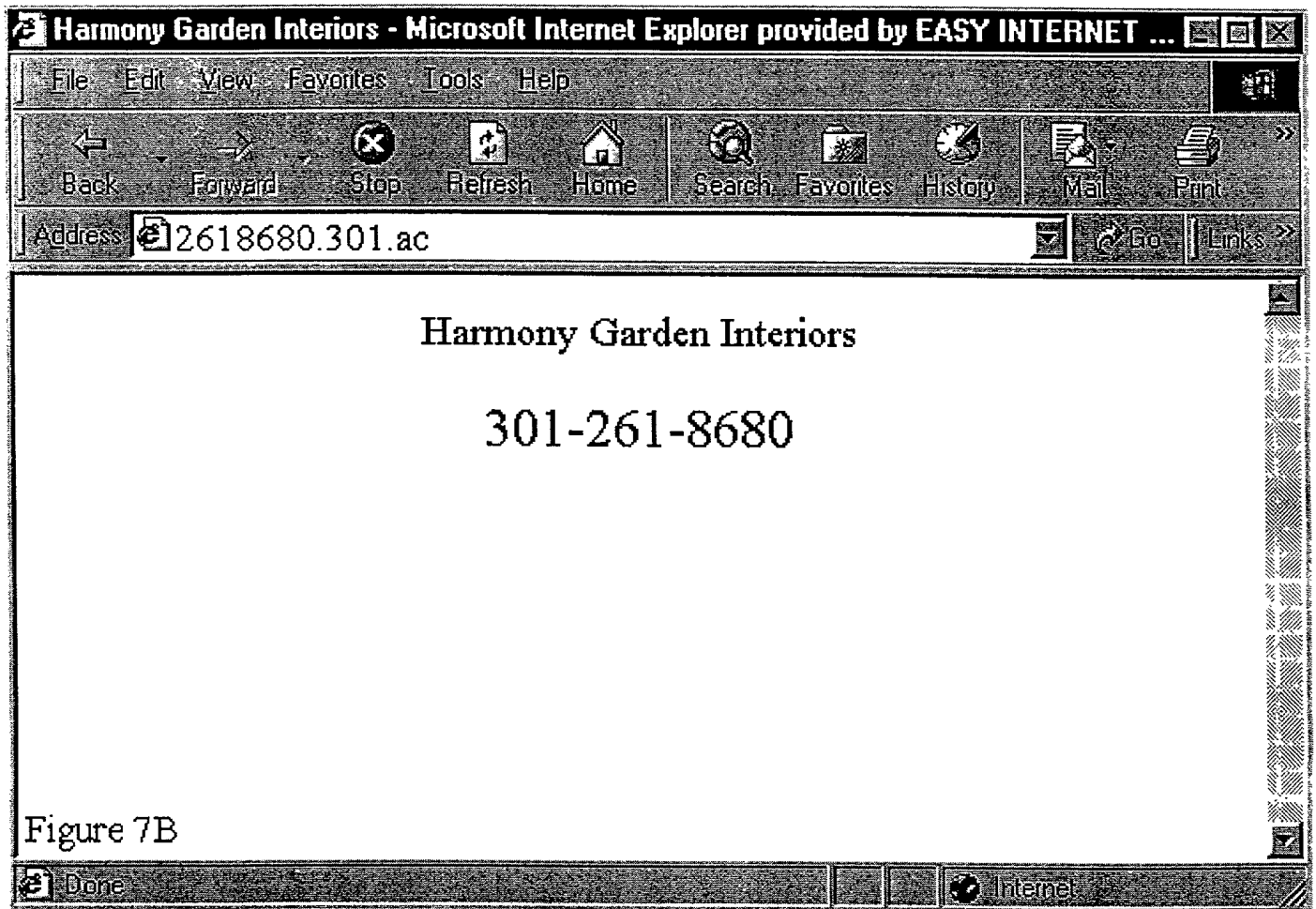


Figure 7B

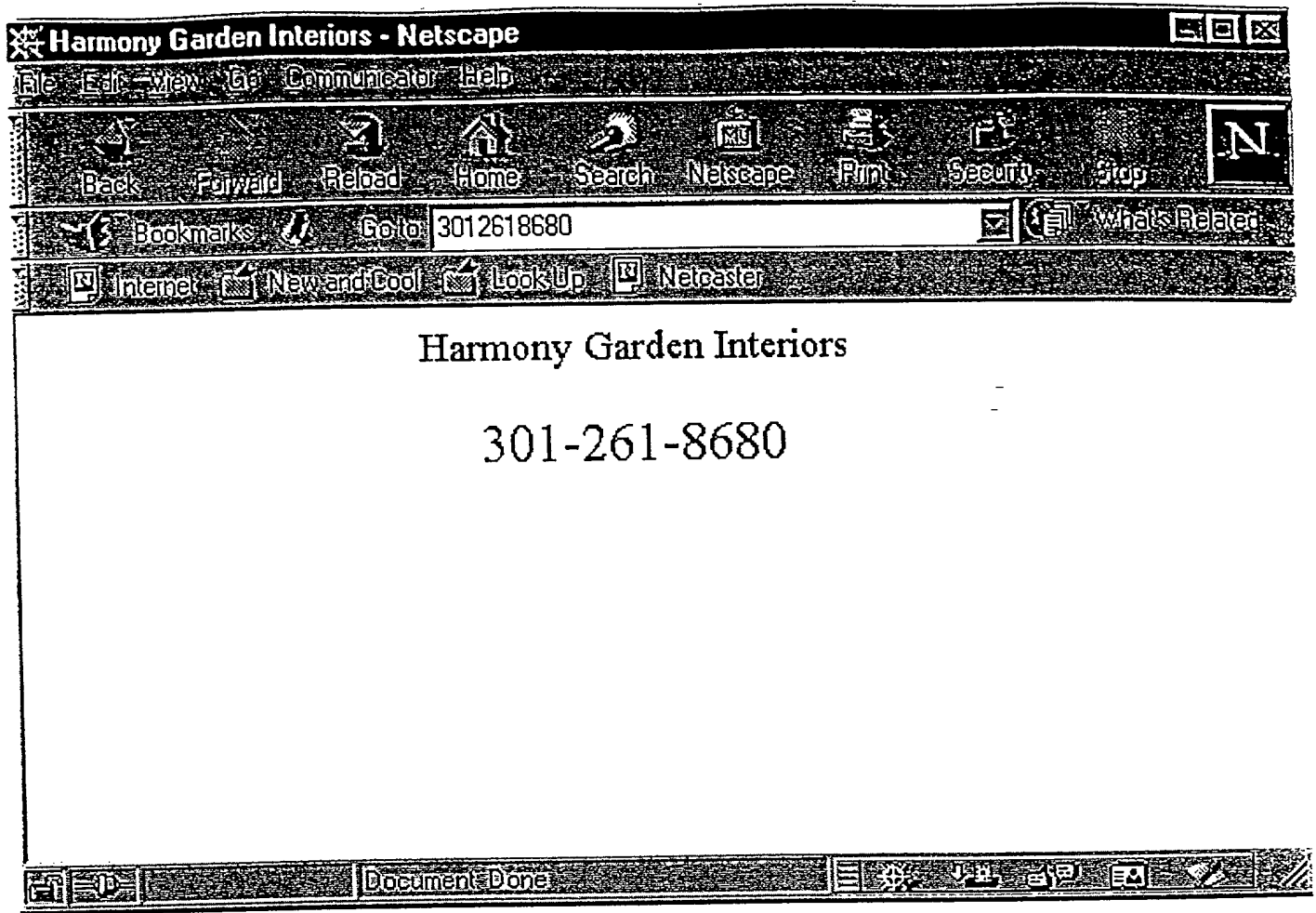
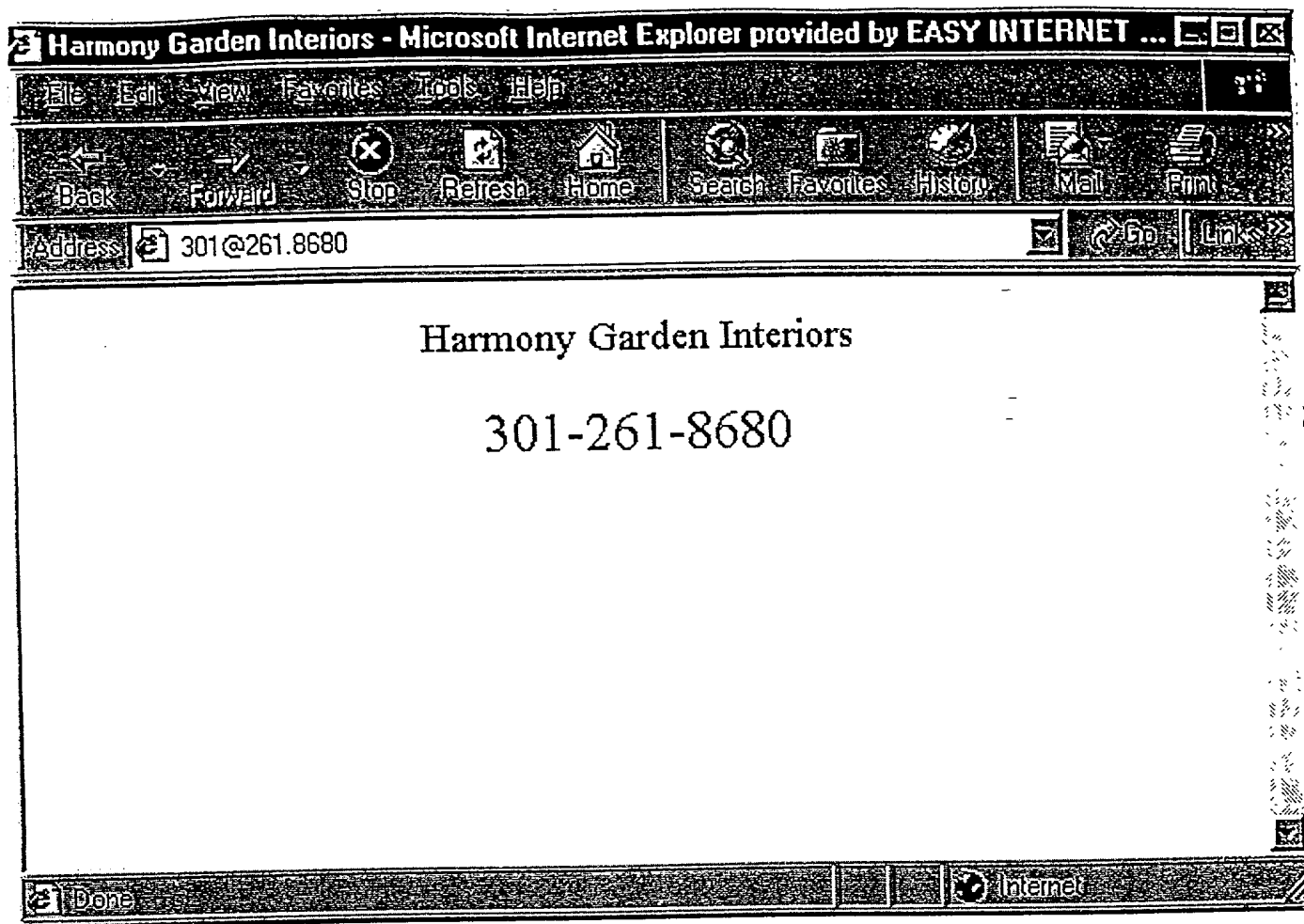


FIG. 8



F16.9

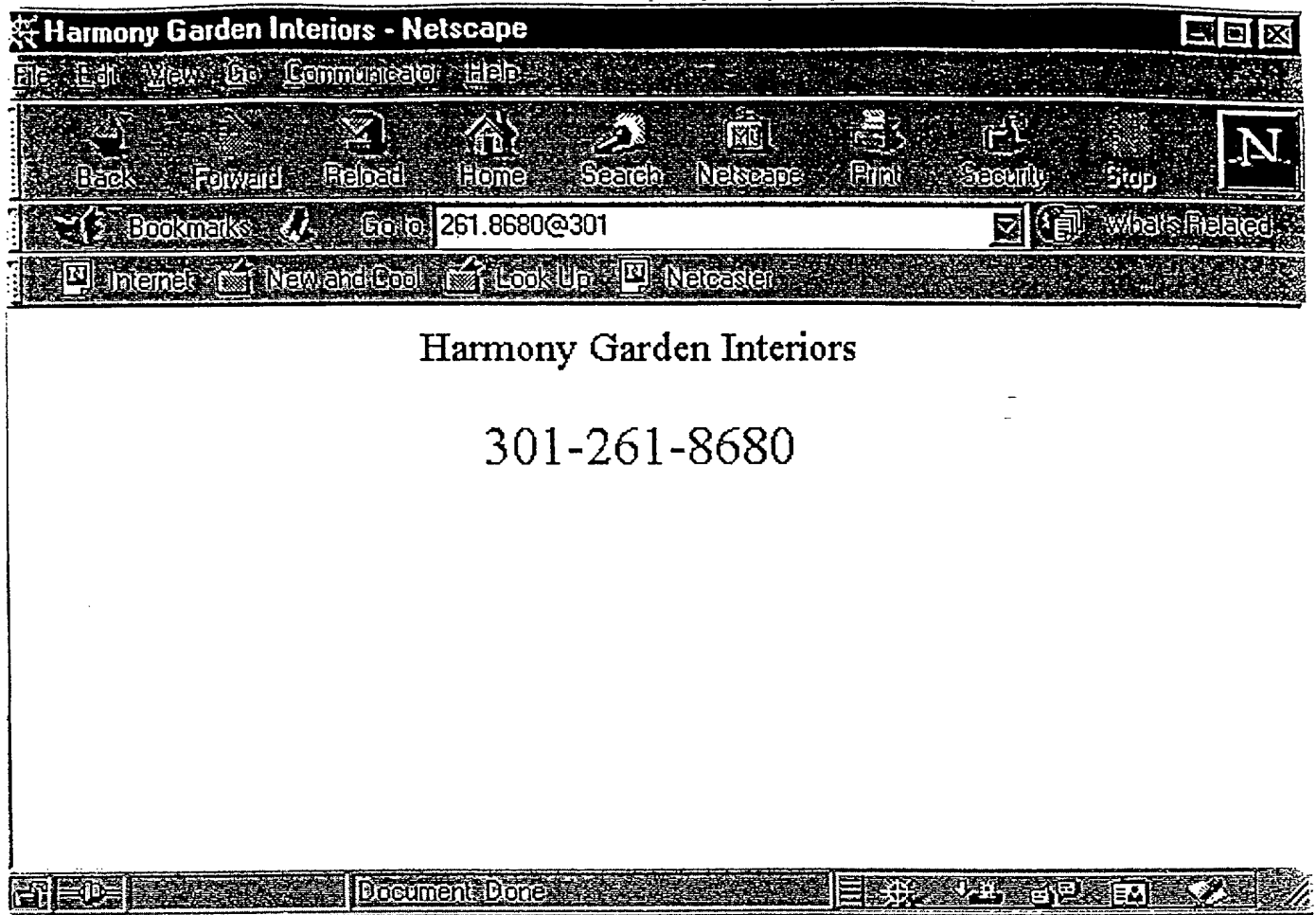


FIG. 10

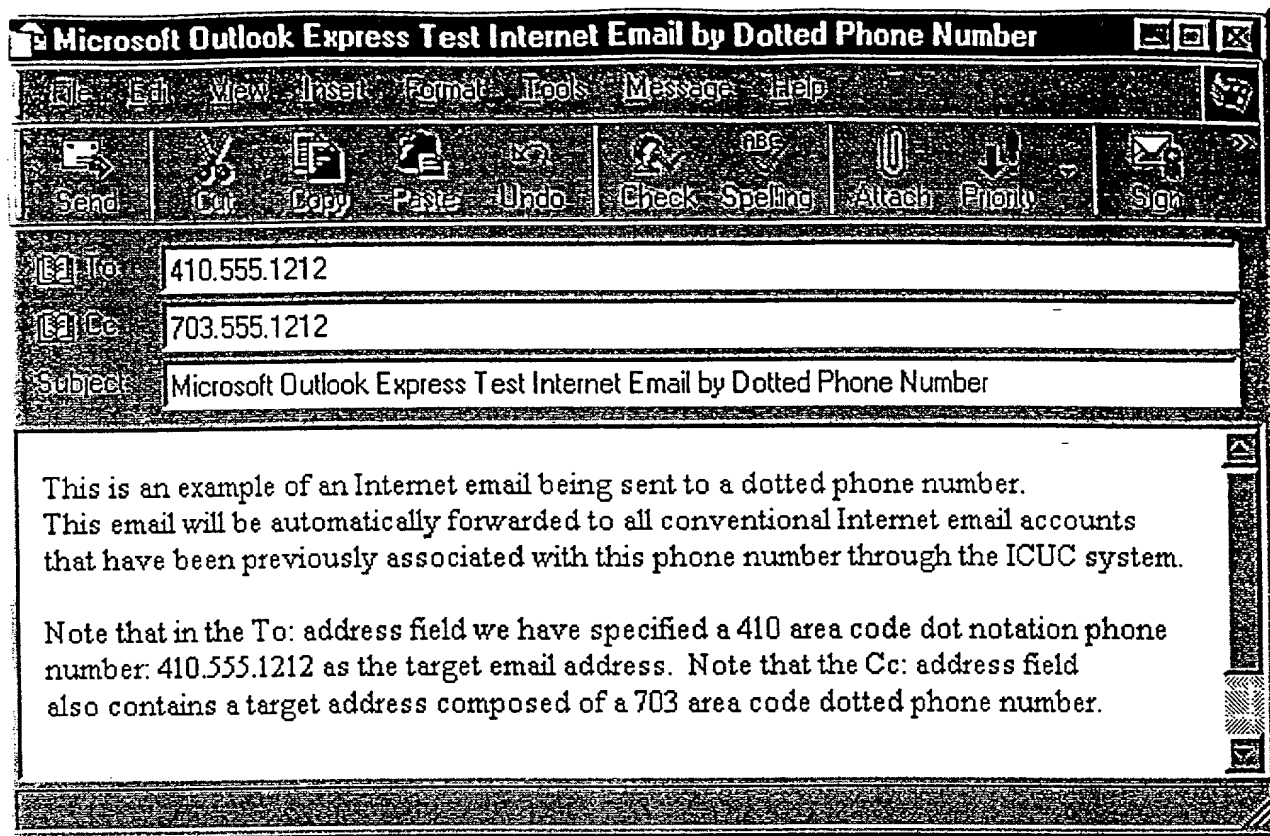


FIG. 11

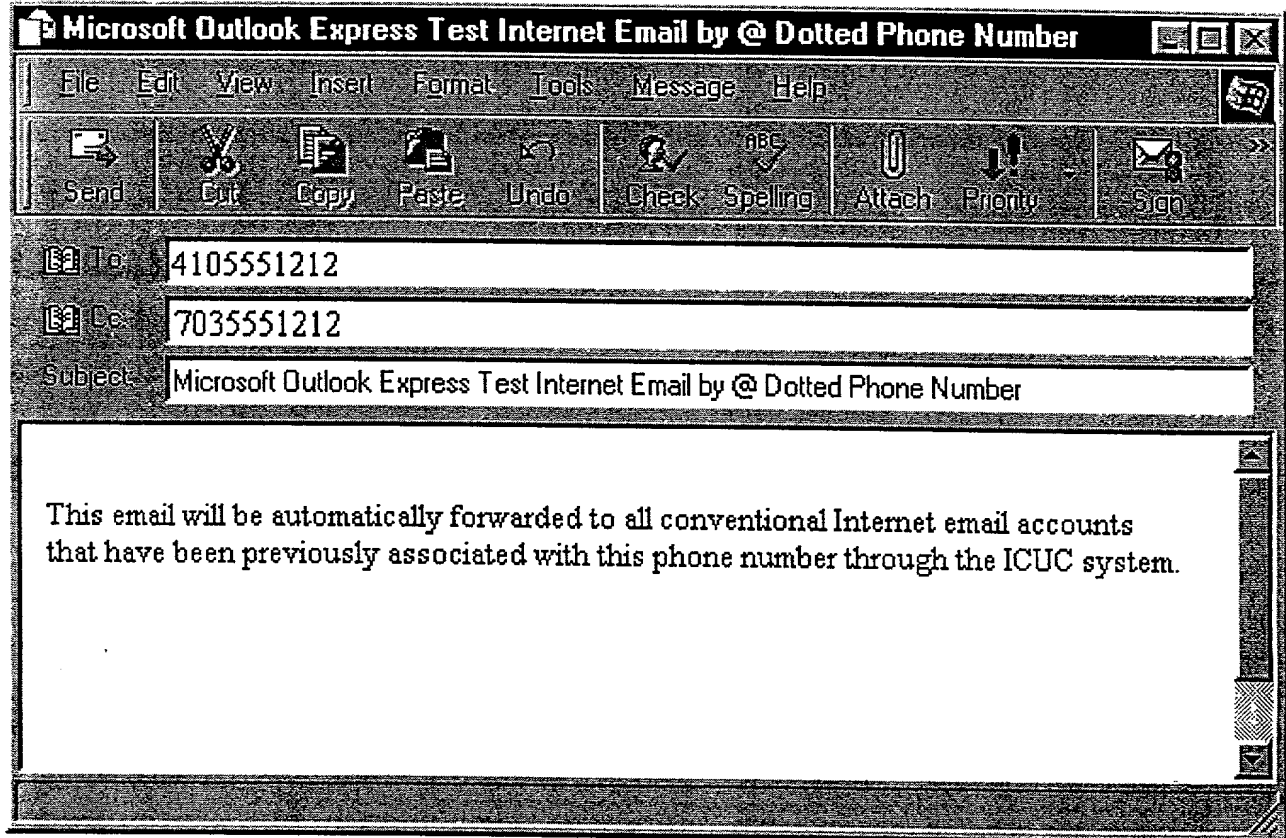
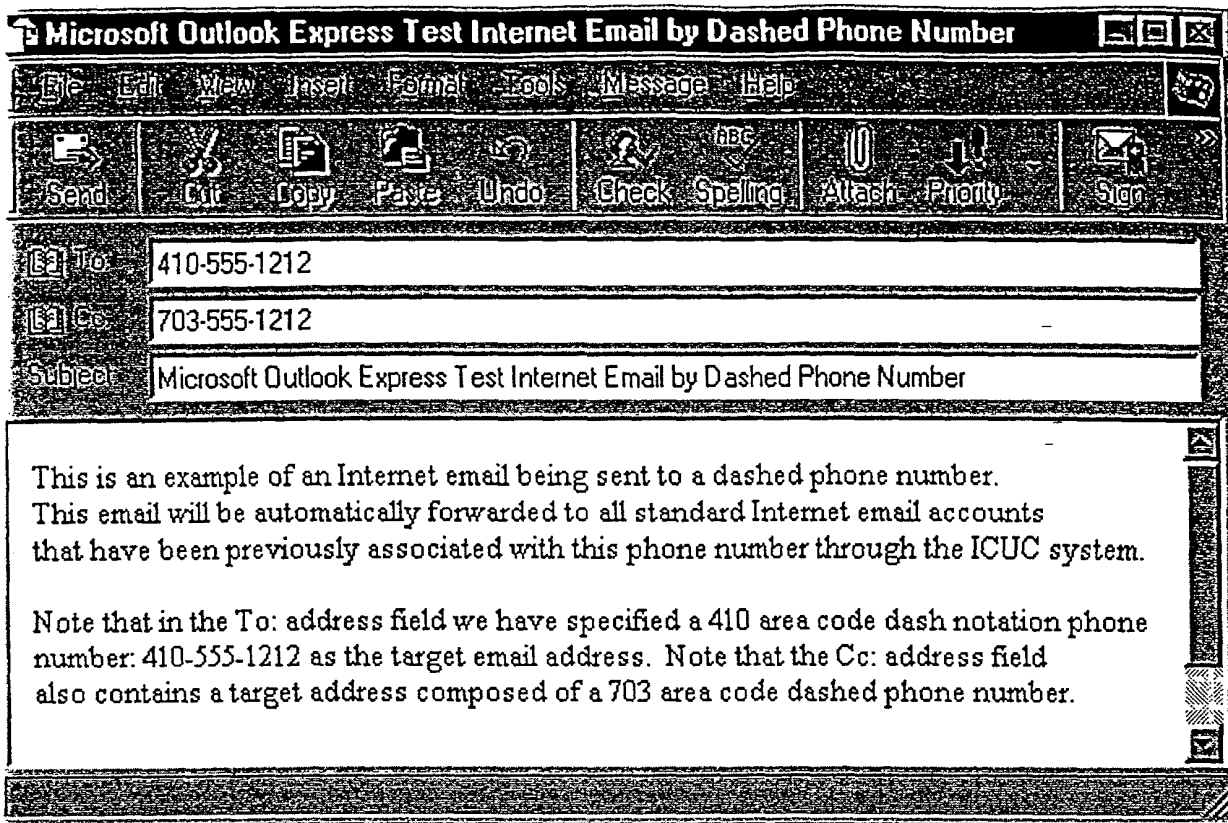


FIG. 11A



F16. 12

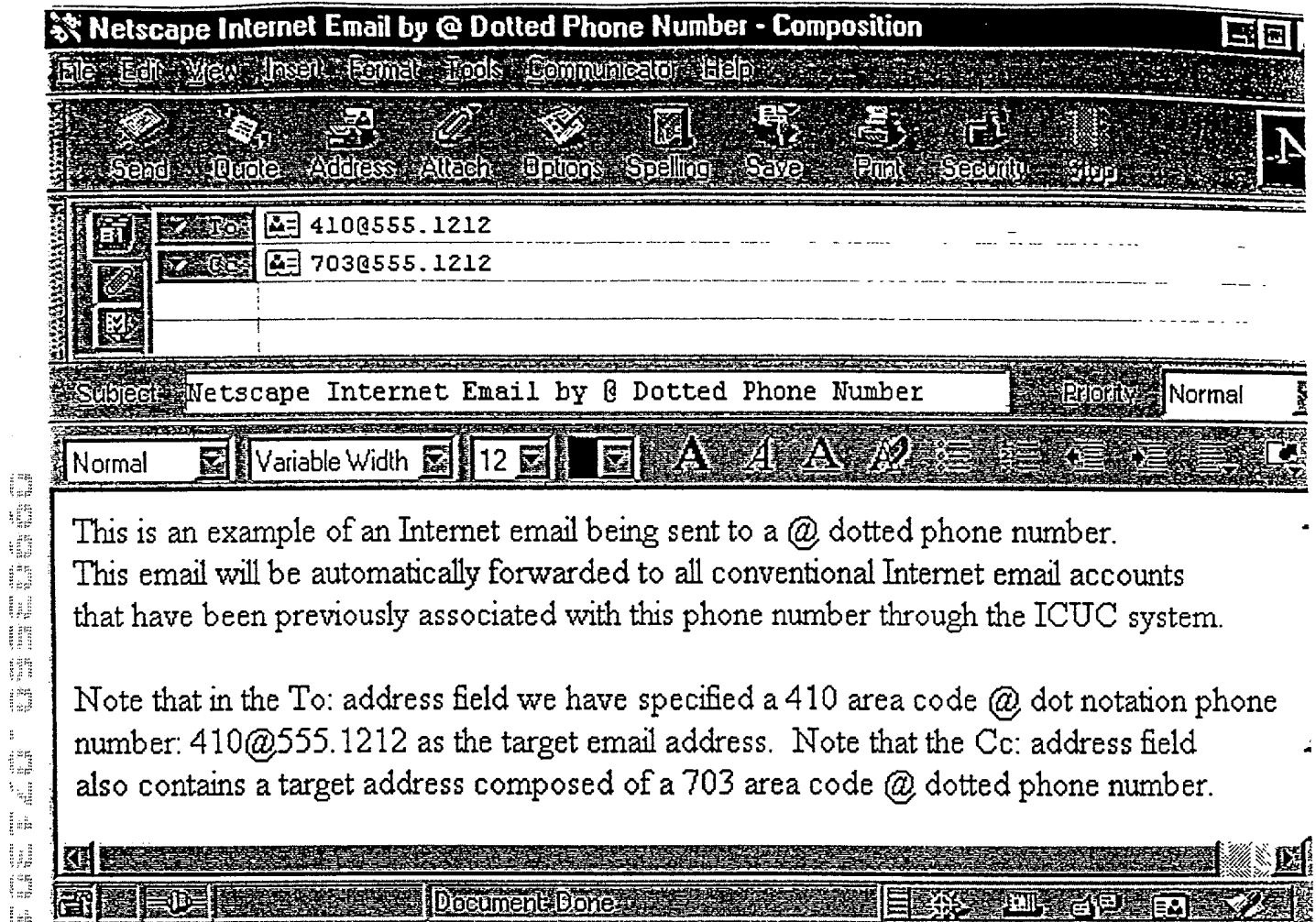


FIG. 13

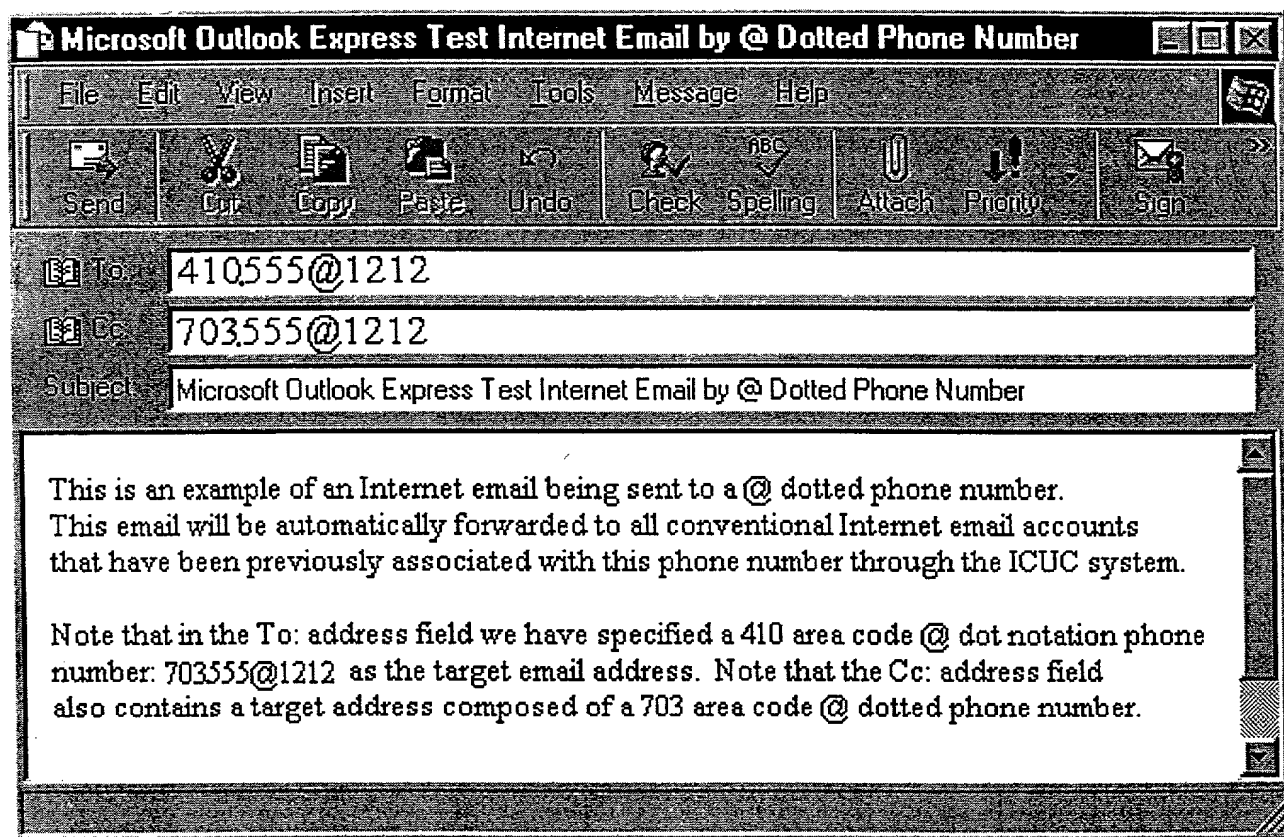


FIG. 13A

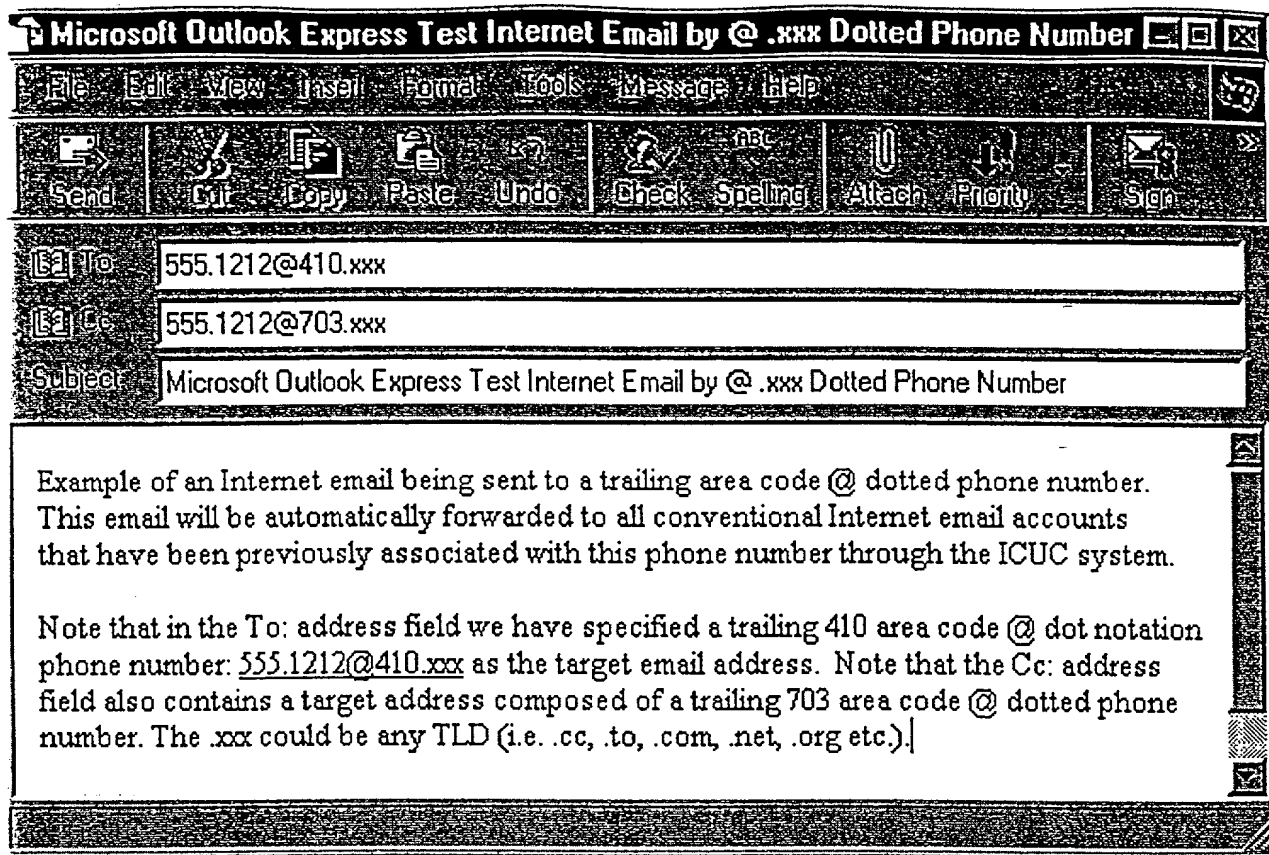


FIG. 14

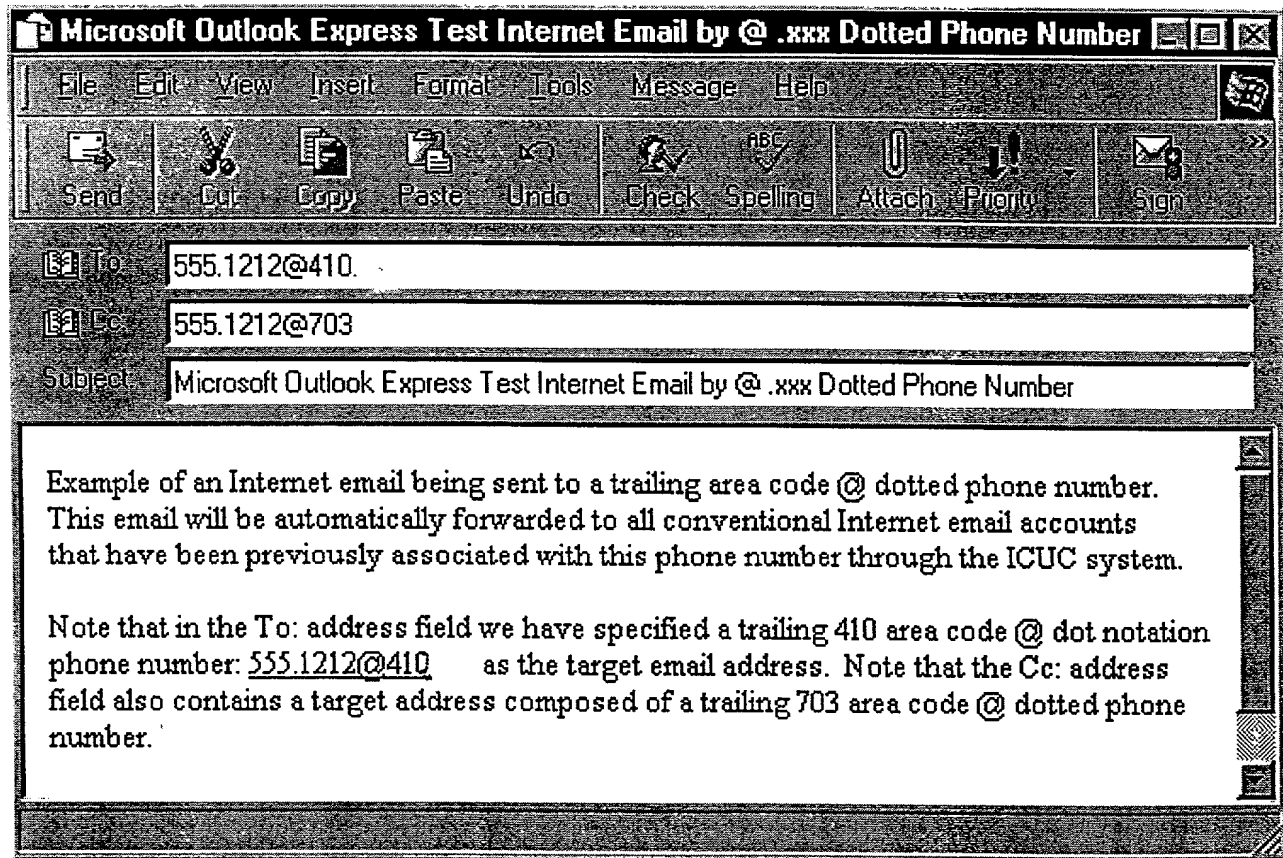
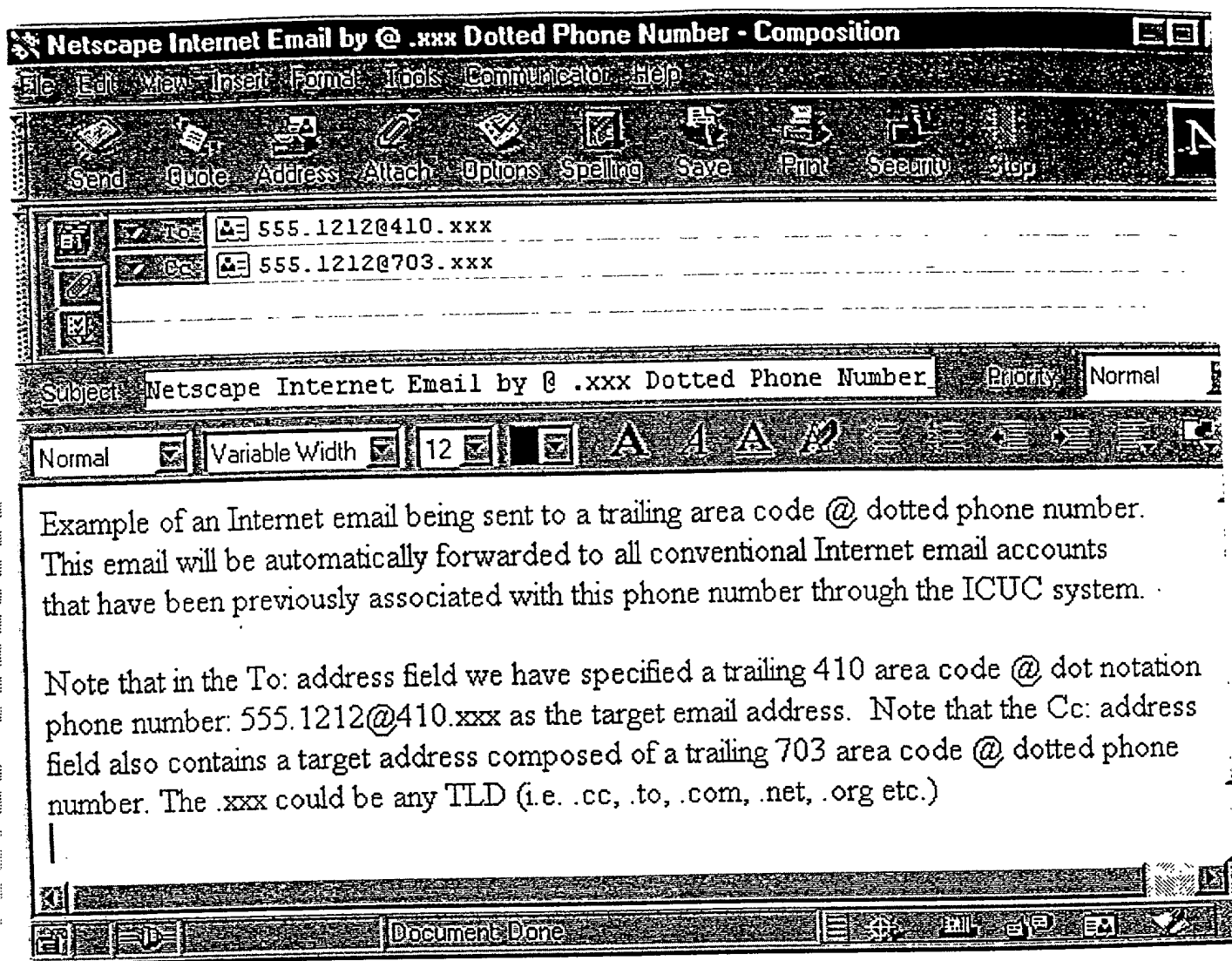


FIG. 14A



F16.15

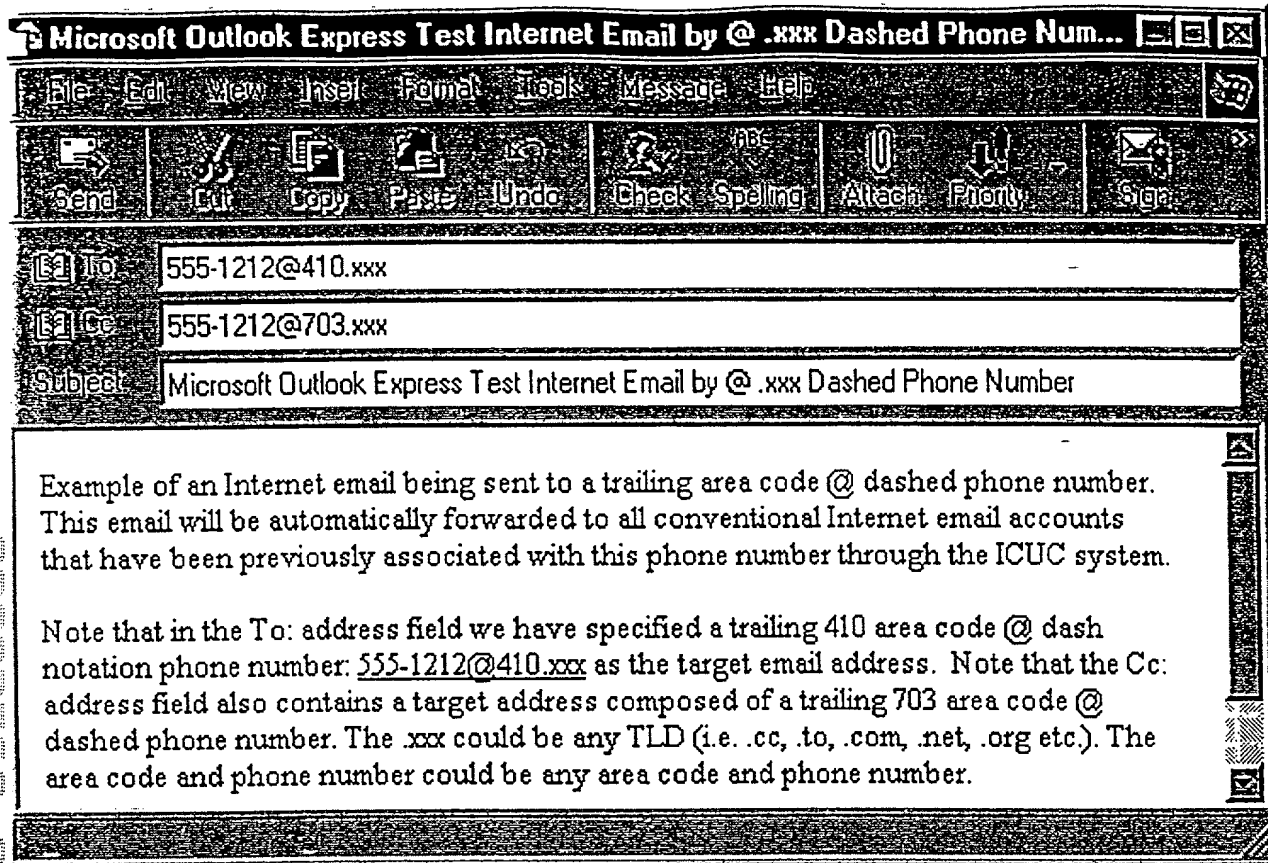


FIG. 16

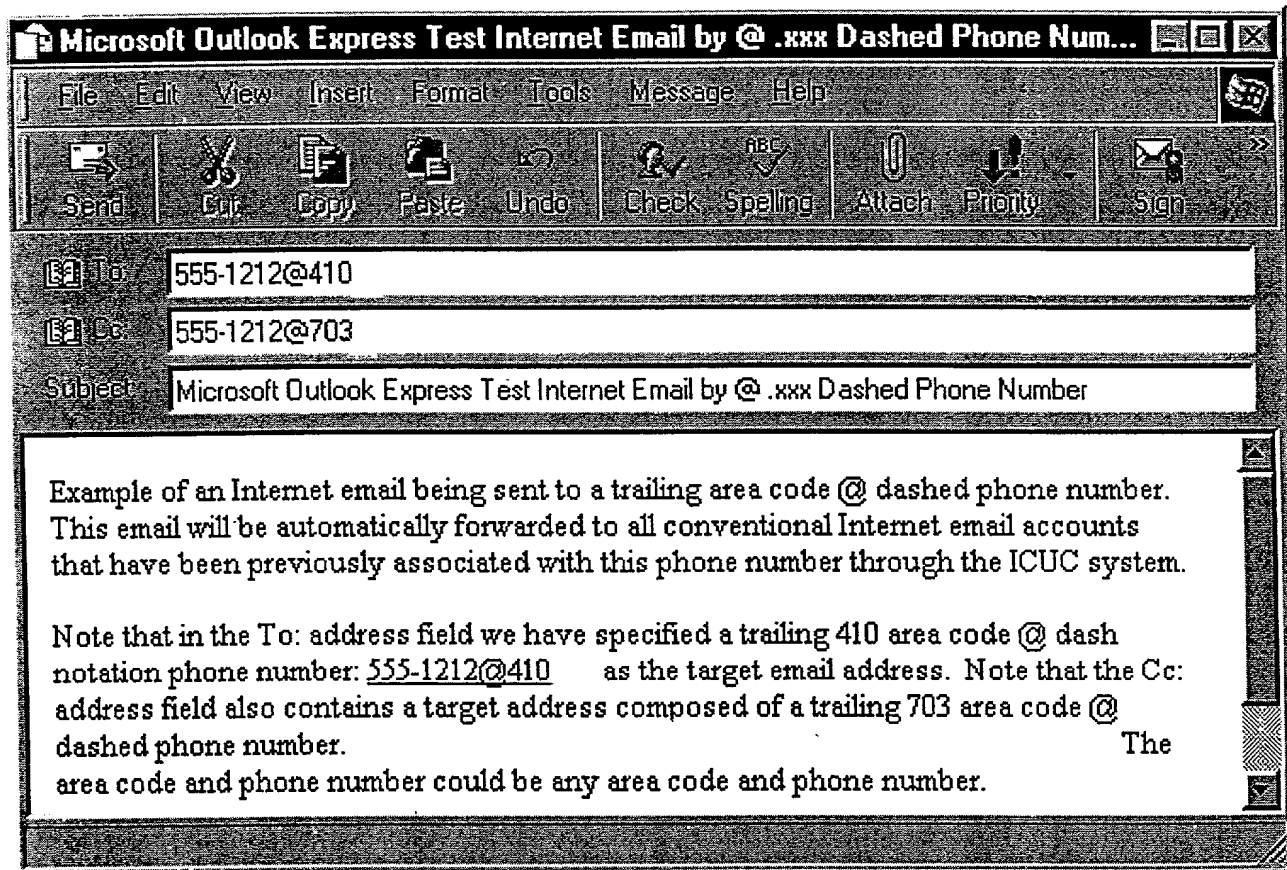


FIG. 16A

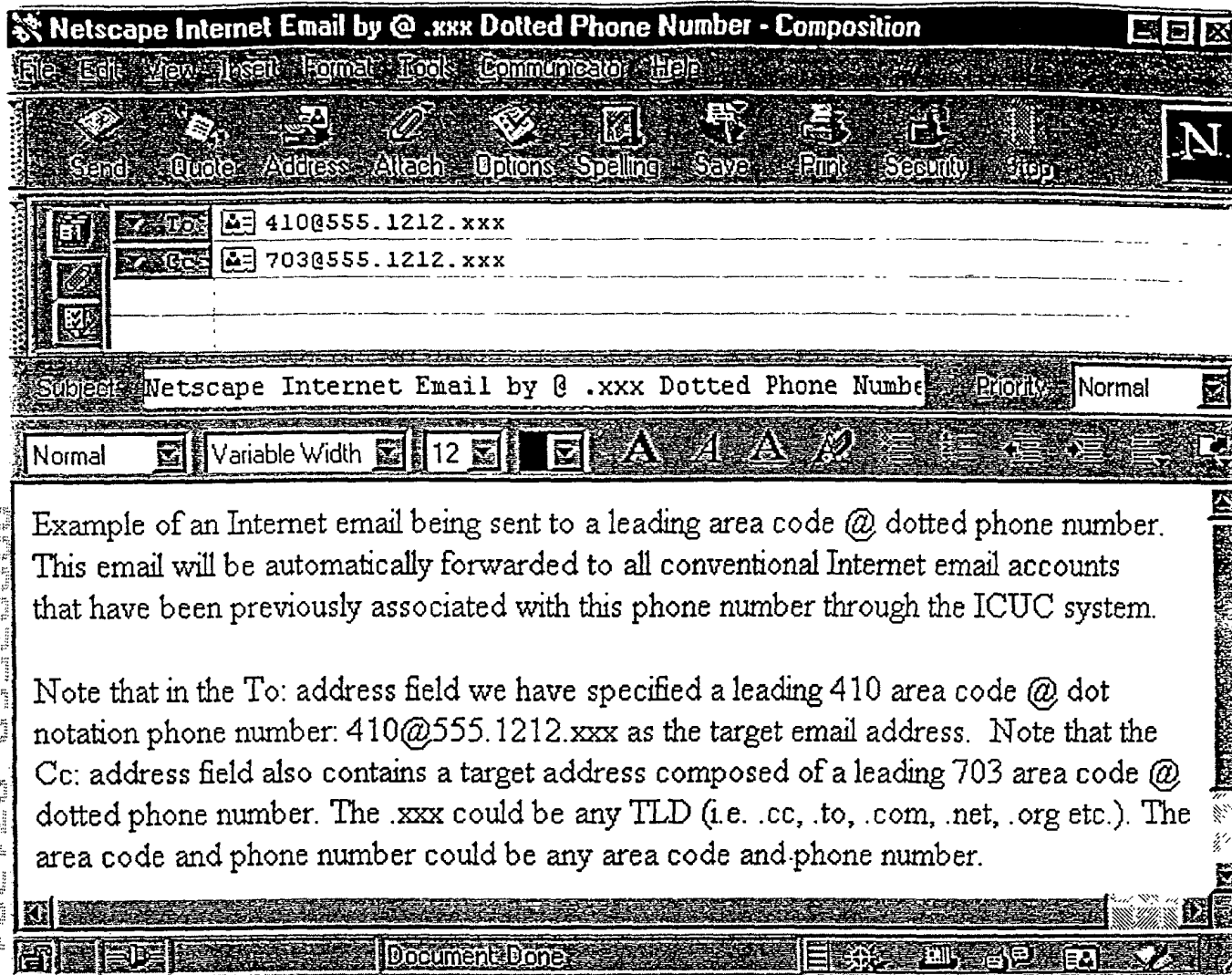


FIG. 17

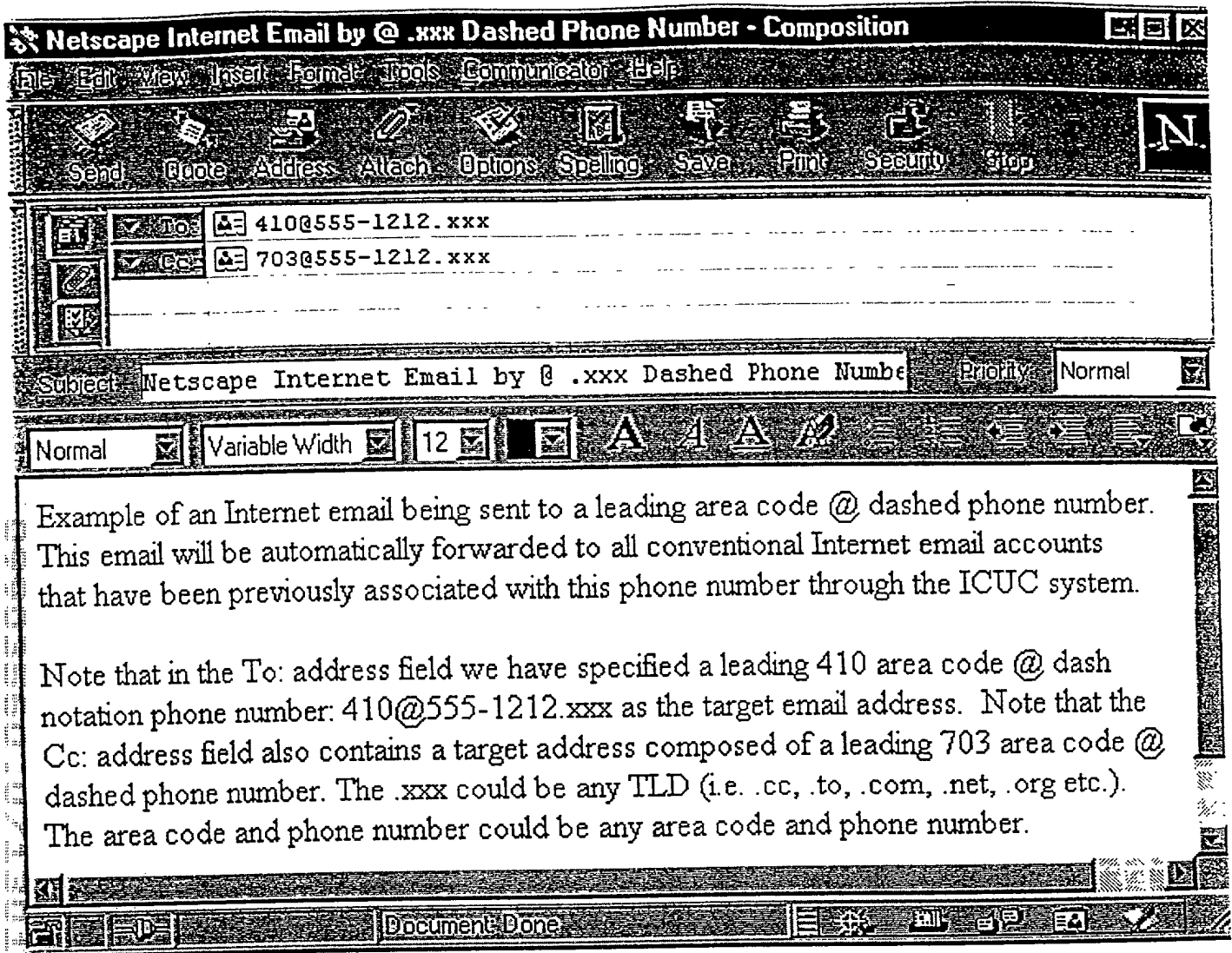
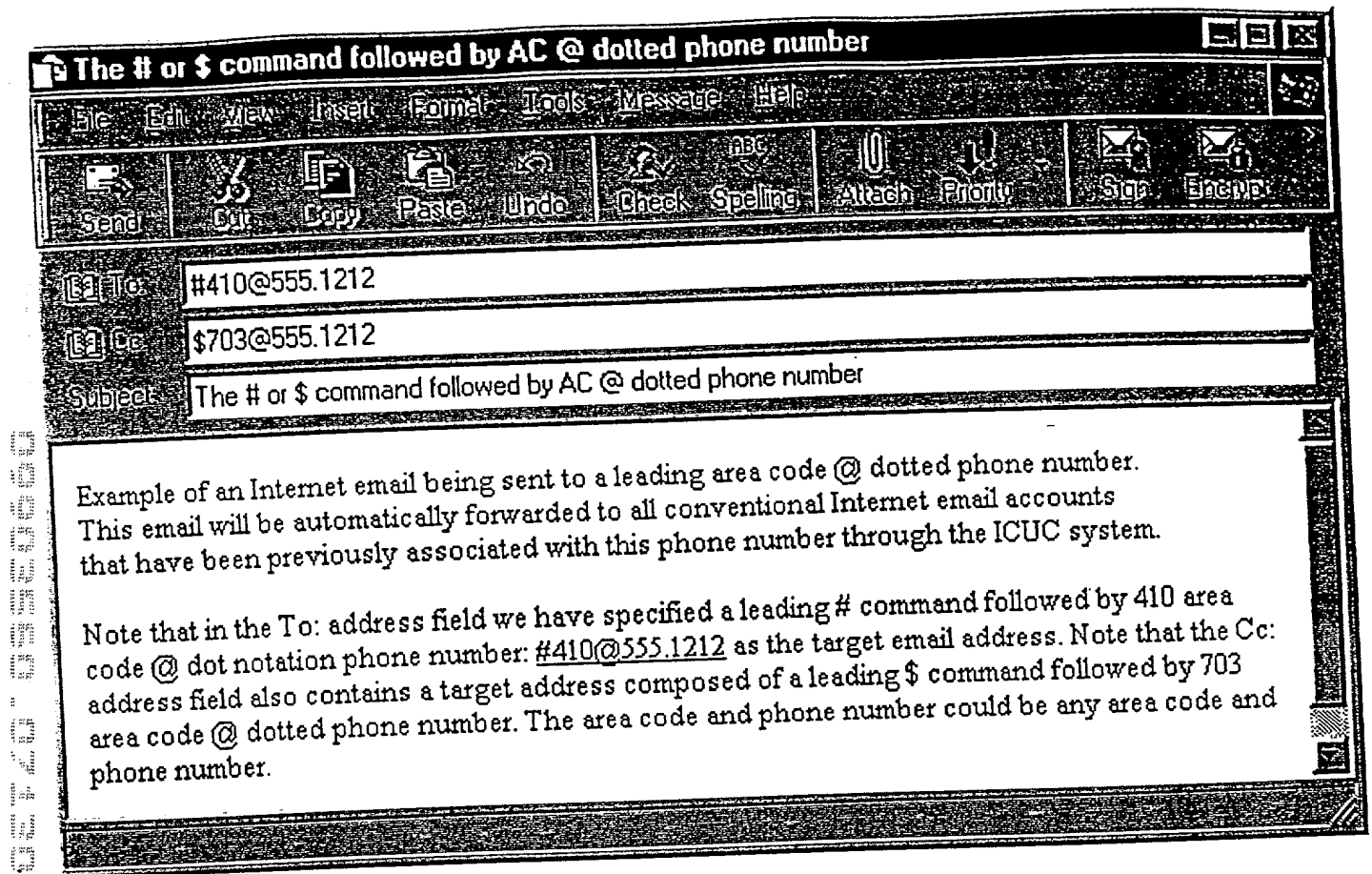


FIG. 18



F16. 19

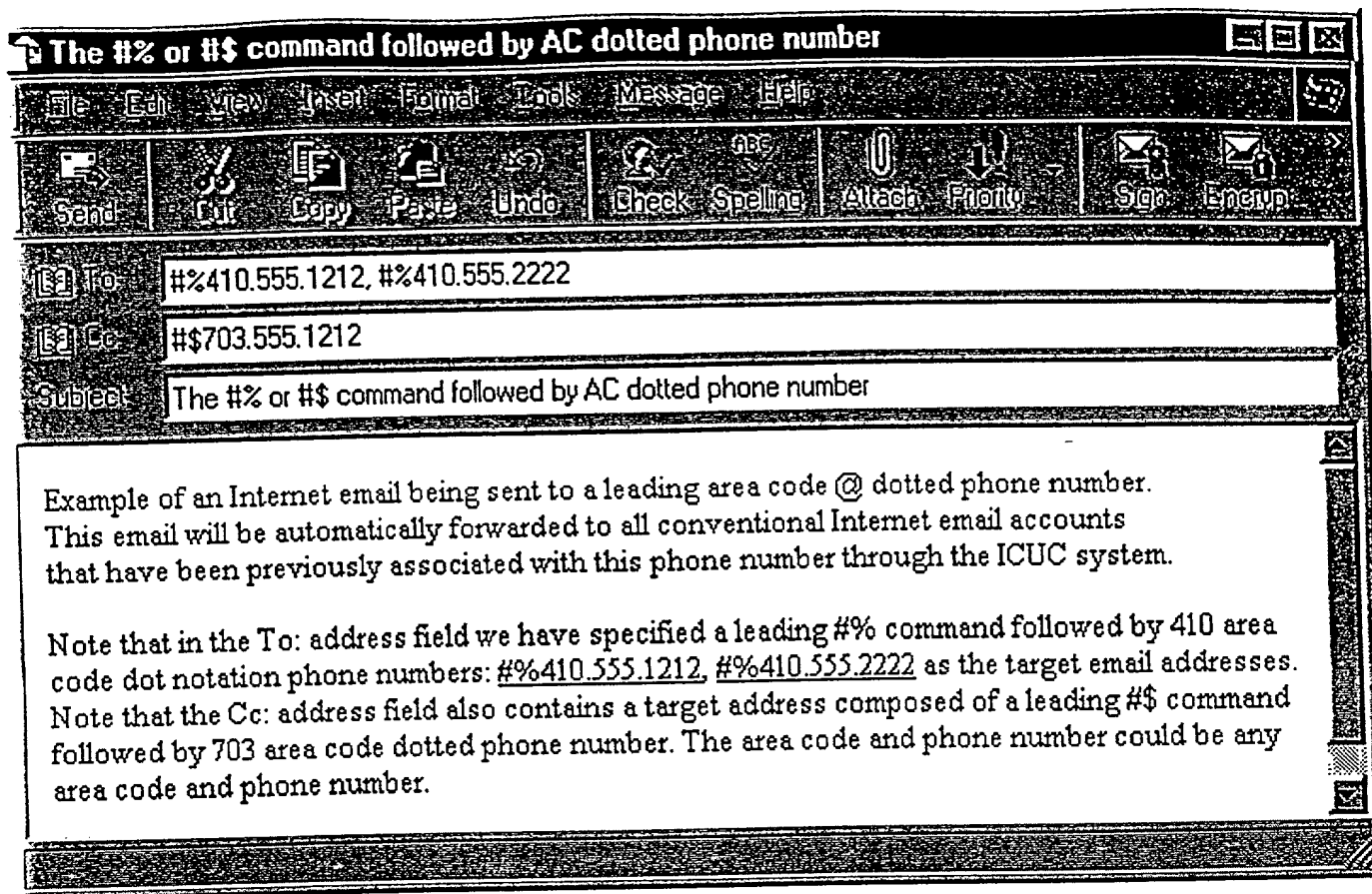


FIG. 20

Figure 21

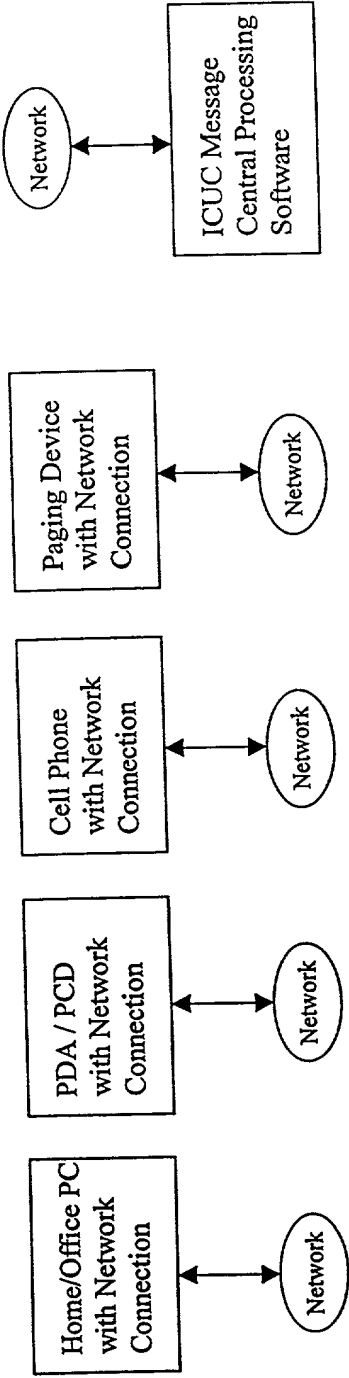
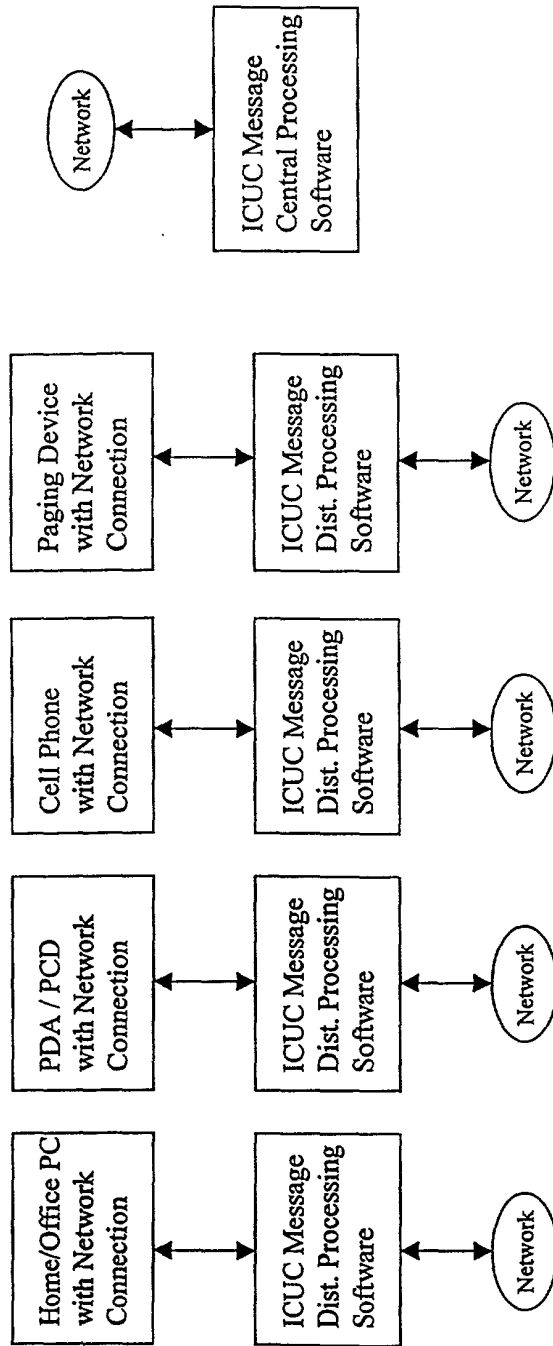


Figure 22



Group: **Task** << >> **Proposal**
 Update Interval: 10 Minutes
 Last Update: 12/10/99 Next Update: 12/10/99

Handle	Task Name	Task Type	Status	Duration	Start	Finish
2025551212	Lawson Proposal	Pricing	OK	1.5 Days	Mon 11/08/99	Fri 11/12/99
	Williams Proposal	Solo	Pending	5 Days	Fri 11/12/99	Fri 11/19/99
	Dentist	New Teeth	Pending	1 Day	Mon 11/22/99	Mon 11/22/99
3015551212	Andersen Consulting	Lunch	DND	2 Hours	12:00	12:00
	Lawson Proposal	Specifications	OK	3 Days	Thu 11/04/99	Mon 11/15/99
	Black Widow Project	Benchmarking	Pending	2.5 Days	Tue 11/16/99	Thu 11/18/99

Figure 23

410.555.1212

Group: Cards < Group: National < Group: DCMetro < Group: CardGame1

Update Interval: 5 Minutes

Last Updated

03/17/00 at 13:45

Owner Handle	Status	Time	Task Type	Task Description	Location	ETA	ETD
202.555.1212	En Route	13:40	Proposal Prep	Johnston Machine Parts	2624 Broadwater Drive	14:00	15:00
410.555.1212	Working	13:12	Sales Appointment	Carlton Associates	1928 Longview Blvd	13:00	14:30
703.555.1212	Unavail	12:31	Job Site Inspection	Danby Realty	8274 Cold Spring Lane	12:30	16:30
703.555.2224	Farming	13:26	Planting	Soy Beans	Herring Bay Field	--:--	--:--

Update Interval Alerts Groups Items Sort Save New

An example of an Internet browser display showing a user (410.555.1212) selected subset of authorized data items pertaining to all members of a subgroup (folder) named "CardGame1" within a subgroup (folder) named "DCMetro" within a subgroup (folder) named "National" within a group (folder) named "Cards" and sorted by the data item "Owner Handle". A group is a collection of handles and/or other groups. Groups can generally be thought of conceptually as file folders. However, unlike a traditional file folder, a given subgroup can appear in other groups simultaneously.

Figure 24

4105551212
 Group: Cards < Group: National < Group: DCMetro < Group: CardGame1
 Update Interval: 5 Minutes
 Last Updated
 03/17/00 at 14:20

Owner Handle	Status	Time	Task Type	Task Description	Location	% Done	Finish
2025551212	Working	13:40	Proposal Prep	Johnston Machine Parts	2624 Broadwater Drive	70%	15:00
4105551212	Working	14:12	Sales Appointment	Carlton Associates Deal	1928 Longview Blvd	80%	14:30
7035551212	Unavail	12:31	Site Inspection	Danby Realty Project	8274 Cold Spring Lane	25%	16:30
7035552224	In Field	13:26	Plowing	Soy Bean Management	Herring Bay Field	50%	17:30

Update Interval Alerts Groups Items Sort Save New

An example of an Internet browser display showing a user (410.555.1212) selected subset of authorized data items pertaining to all members of a subgroup (folder) named "CardGame1" within a subgroup (folder) named "DCMetro" within a subgroup (folder) named "National" within a group (folder) named "Cards" and sorted by the data item "Owner Handle". A group is a collection of handles and/or other groups. Groups can generally be thought of conceptually as file folders. However, unlike a traditional file folder, a given subgroup can appear in other groups simultaneously.

Figure 25

ICUC PDA/PCD

Get Information

Phone/Handle: 4105551212

Password: *****

Get What? Everything: ☐

Status: ☒

Task Type: ☒

Current Task: ☒ Remarks: ☐

Location: ☒ ETD: ☐ Map: ☐

Next Location: ☐ ETA: ☐

Final Location: ☐ ETA: ☐

Pending Task List:

List All: ☐ Overdue Only: ☐

Owners NTAR: ☐

Project Teams: ☐

Group Memberships: ☐

Web Page Links: ☐

Posted Msgs: ☐

Contact Numbers: ☐

Postal Address: ☐

Owner Remarks: ☐

Transaction History: ☐

Hour: ☒ 8 Hour: ☐ 24 Hour: ☐ All: ☐

Email/Msg Filters: ☐

Change Notification List: ☐

Hot Zones: ☐ Map Zones: ☐

Lat/Lon/Alt Permissions: ☐

Figure 26

ICUC PDA/PCD

Set Information

Phone/Handle: 4105551212

Password: *****

Set What?

Status: Working

Task Type: Proposal

Location Lat/Lon ☒ Doug Nelson's office

ETD: 14:00 EDD: 02/09/00

Select Task: ☒ Harrison Proposal
Deliver Bldg Plans
Johnson Dinner

Project Team: Epping

ETC: 14:00 EDC: 02/09/00

Next Location: 1892 Van Dom St, Annapo

ETA: 18:30 EDA: 02/09/00

Remarks: Getting final project pricin

Email Filter: Friends Only

Change Notification Req. #1: 7035551212

Change Notification Req. #2: 2025551212

Receive Alerts: Pri 1 ☐ Pri 2 ☐ Pri 3 ☐ None ☐

Reminders: Yes ☐ No ☐

Timers: Yes ☒ No ☐

Figure 27

History of 4102129119
 Owner: John D. Goodspeed
 as of
 11/15/1999 from 10:00 to 15:00

Date	Time	Status	Task Type	Task Description	Location	Latitude	Longitude	Altitude
11/15	14:49:12	Avail	Eating	Lunch at Dandy's	9828 Park View Place	39.49.55.171	79.31.14.821	36m
11/15	14:35:41	En Route	Eating	Lunch	12000 block Madison Ave	39.49.16.329	79.32.61.298	27m
11/15	14:30:17	Leaving	Meeting	Bradshaw Property Sale	11928 Madison Ave	39.49.14.872	79.32.61.217	49m
11/15	13:17:33	Arrive	Meeting	Bradshaw Property Sale	11928 Madison Ave	39.49.14.877	79.32.61.215	48m
11/15	12:54:28	En Route	Meeting	Bradshaw Property Sale	11928 Madison Ave	39.48.74.197	79.32.06.445	31m
11/15	12:46:57	Leaving	Training	K7 Project Management	7848 Sinclair Lane	39.48.74.246	79.32.06.489	42m
11/15	10:01:42	Arrive	Training	K7 Project Management	7848 Sinclair Lane	39.48.74.251	79.32.06.468	43m

Update Range Groups Items Filter Sort Save New

Figure 28

An example of an owner history associated with the device handle (phone number) 410.212.9119 which belongs to owner John D. Goodspeed.

Fig. 29

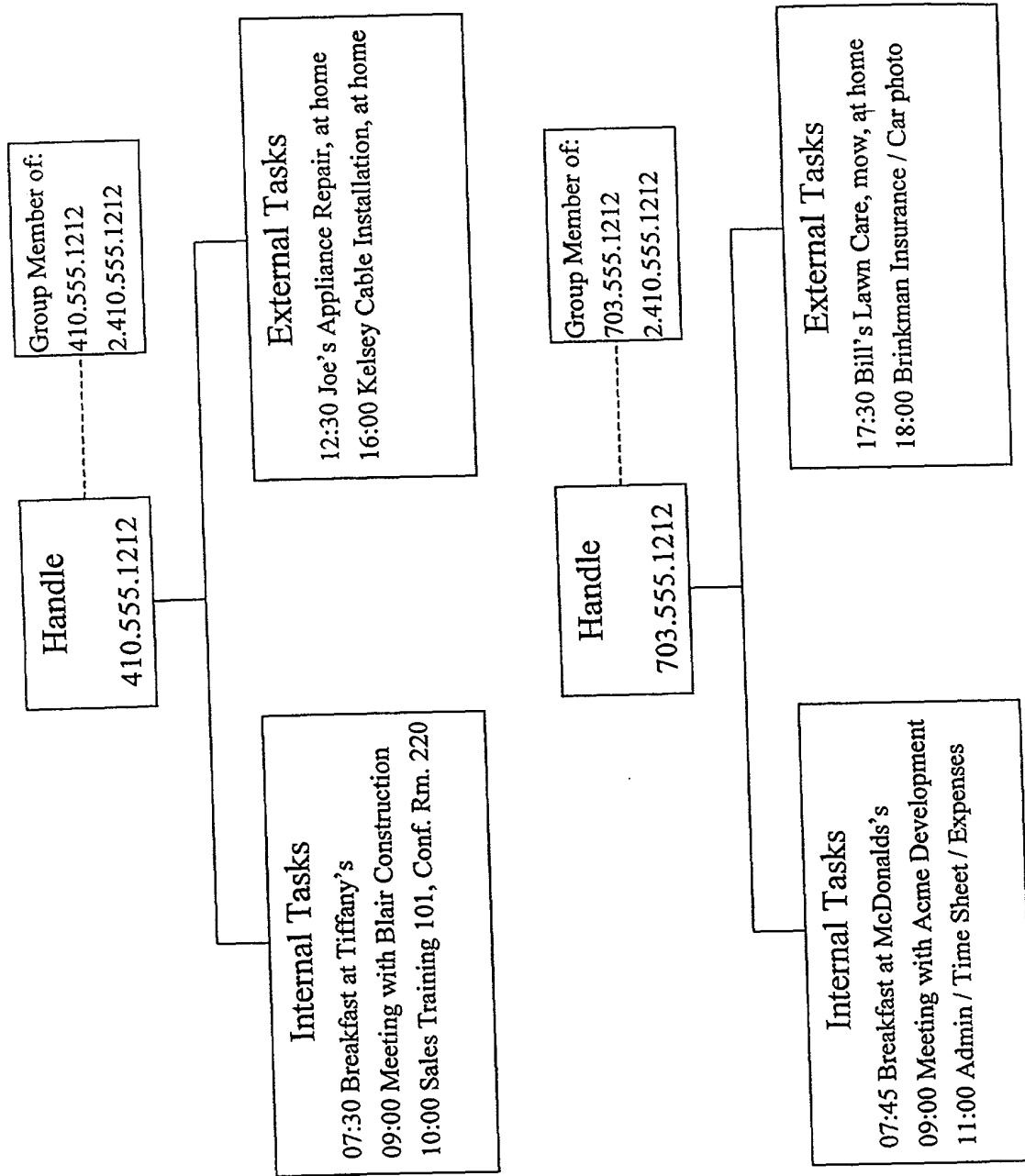
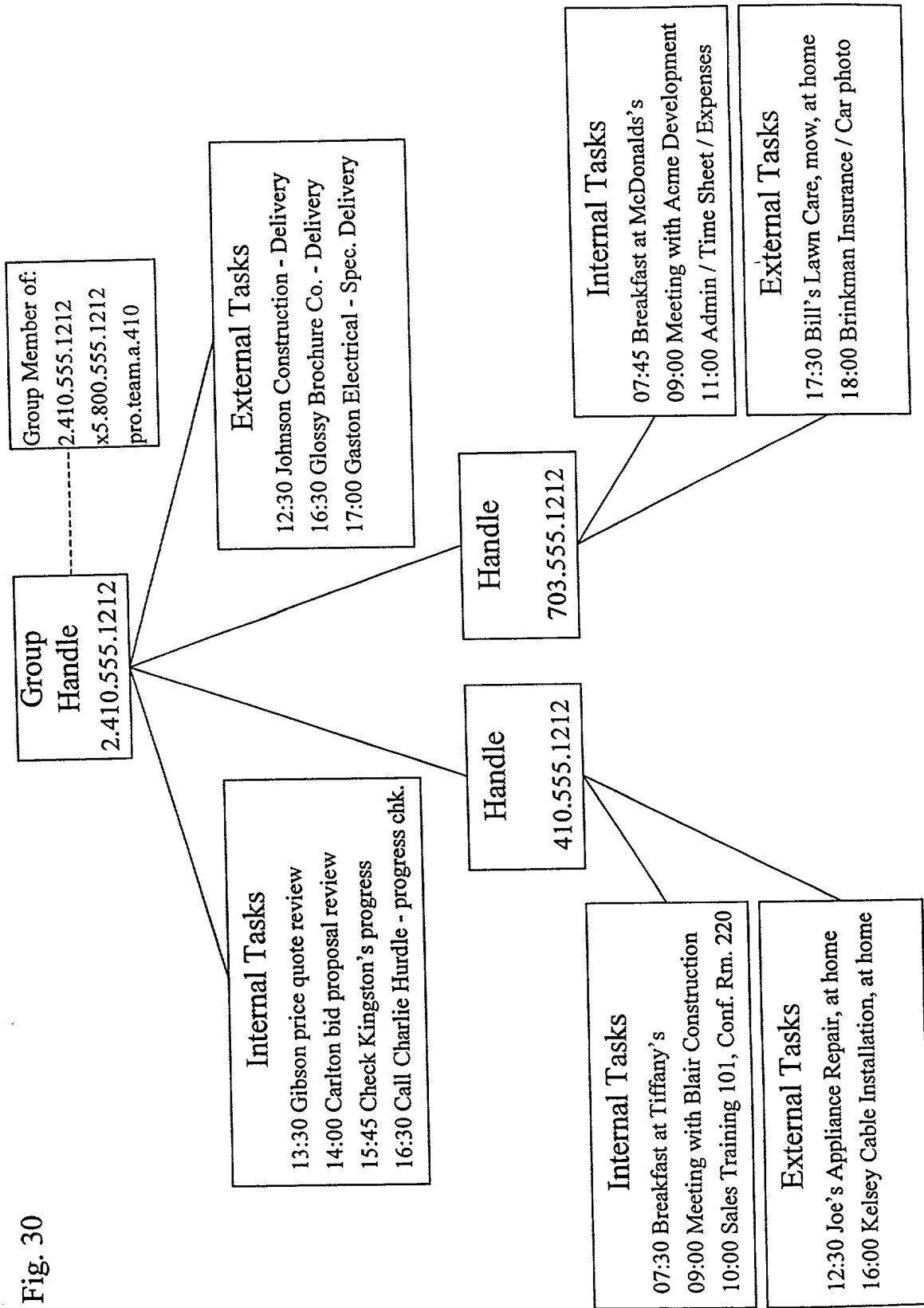


Fig. 30



703.555.1212

Group: Kitchen << Group: Stove

Update Interval: 1 Minute

Last Updated

03/16/00 at 18:40

Stove Burner	Status	Time	Burner Setting	Task Description	Location	% Done	Finish
BurnerLF	On	18:40	Medium High 2	Mac and Cheese	2625 Broadwater Drive	90%	18:44
BurnerLR	Off	18:40	Off	Available	2625 Broadwater Drive		
BurnerRF	On	18:40	Low 1	Beef Stew	2625 Broadwater Drive	100%	18:31
BurnerRR	Off	18:40	Off	Available	2625 Broadwater Drive		

Command	Update	Interval	Alerts	Groups	Items	Sort	Save	New
---------	--------	----------	--------	--------	-------	------	------	-----

An example of an Internet browser display showing the status of the kitchen stove and a cooking meal at 2625 Broadwater Drive at 6:40PM on 3/16/00. This display was the result of a query by phone number group (703.555.1212) requesting a selected subset of authorized data items pertaining to all members of a group (folder) named "Stove" within a group (folder) named "Kitchen" and sorted by the default data item "Stove Burner". The actual query as entered in the URL address field of the browser may have been: #703.555.1212/Kitchen/Stove. The fact that the "Beef Stew" cooking task reached 100% done triggered ICUC to command the "Stove" device group within the "Kitchen" group associated with phone number 703.555.1212 to reduce heat to "Low 1" from "Medium High 1". This status display is set to re-generate itself with the latest "Stove" statistics once every minute. The "Command" button can be used for manual remote control of the "Stove" group device. Other viewable and controlable device groups within the kitchen associated with this phone number might be the refrigerator, microwave, bread machine and dishwasher. A group is a collection of handles and/or other groups. Groups can generally be thought of conceptually as file folders. However, unlike a traditional file folder, a given subgroup can appear in other groups simultaneously.

Figure 31

703.555.1212

Group: Kitchen << Group: Fridge << Group: Freezer

Update Interval: 10 Minutes

Last Updated

03/16/00 at 15:30

Freezer Temp: -6F Refrigerator Temp: 38F

Freezer Section	Status	QTY	Source	Item Description	UPC Code	Due	Ord Qty
Section 1	On Hand	3	Giant Food	Super G Mixed Fruit	0-11146-62861-4		
Section 1	On Order	0	Giant Food	Green Giant Cut Broccoli	0-20000-17481-5	3/17/00	5
Section 2	On Order	2	Sam's Club	Celeste Veg Pizza for One	0-19600-04500-7	3/17/00	10
Section 3	Full	-	Home	Ice Cubes	-		

Command	Update	Interval	Alerts	Groups	Items	Sort	Save	New
---------	--------	----------	--------	--------	-------	------	------	-----

An example of an Internet browser display showing the status of the kitchen freezer and its contents at 3:30PM on 3/16/00. This display was the result of a query by phone number group (703.555.1212) requesting a selected subset of authorized data items pertaining to all members of a group (folder) named "Freezer" within a group (folder) named "Fridge" within a group (folder) named "Kitchen" and sorted by the default data item "Freezer Section". The actual query as entered in the URL address field of the browser may have been: #703.555.1212/Kitchen/Fridge/Freezer. The fact that the "Green Giant Cut Broccoli" item reached a quantity of 0 has triggered ICUC to place an order to Giant Food's ICUC food ordering external task list for the customer associated with 703.555.1212. This status display is set to re-generate itself with the latest "Freezer" statistics once every 10 minutes. The "Command" button can be used for manual remote control of the "Freezer" group device including temperature settings and food ordering. Other viewable and controlable device groups within the kitchen associated with this phone number might be the stove, microwave, bread machine and dishwasher.

Figure 32

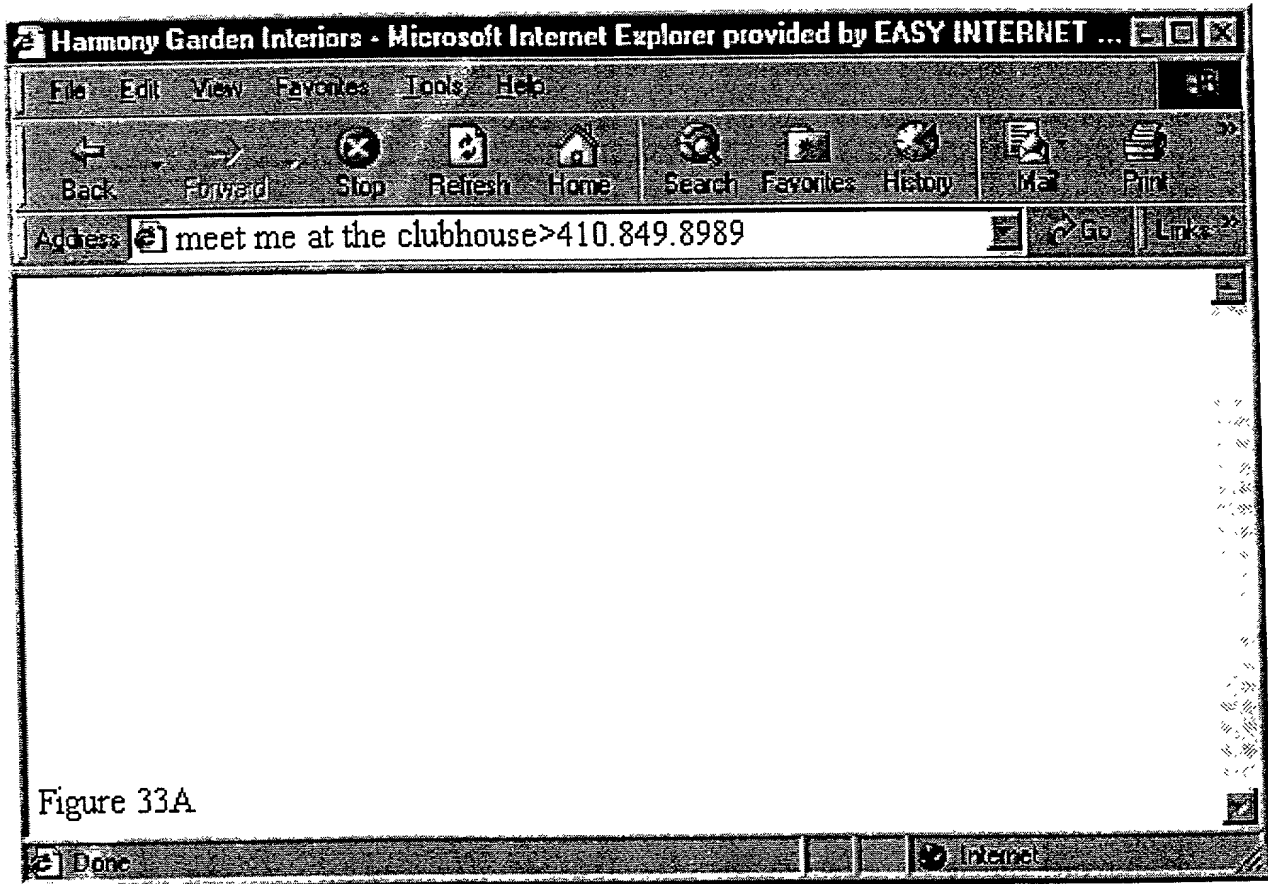


Figure 33A

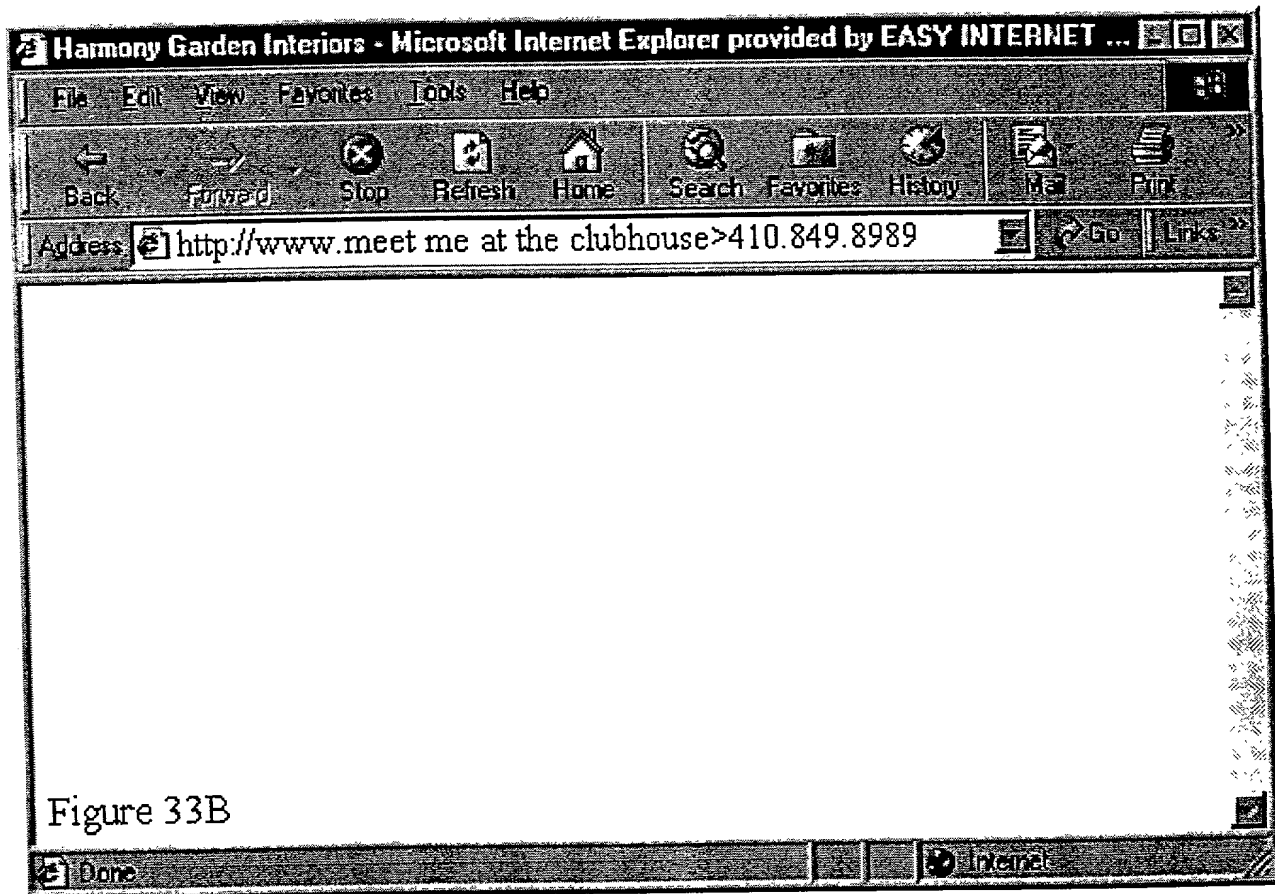


Figure 33B

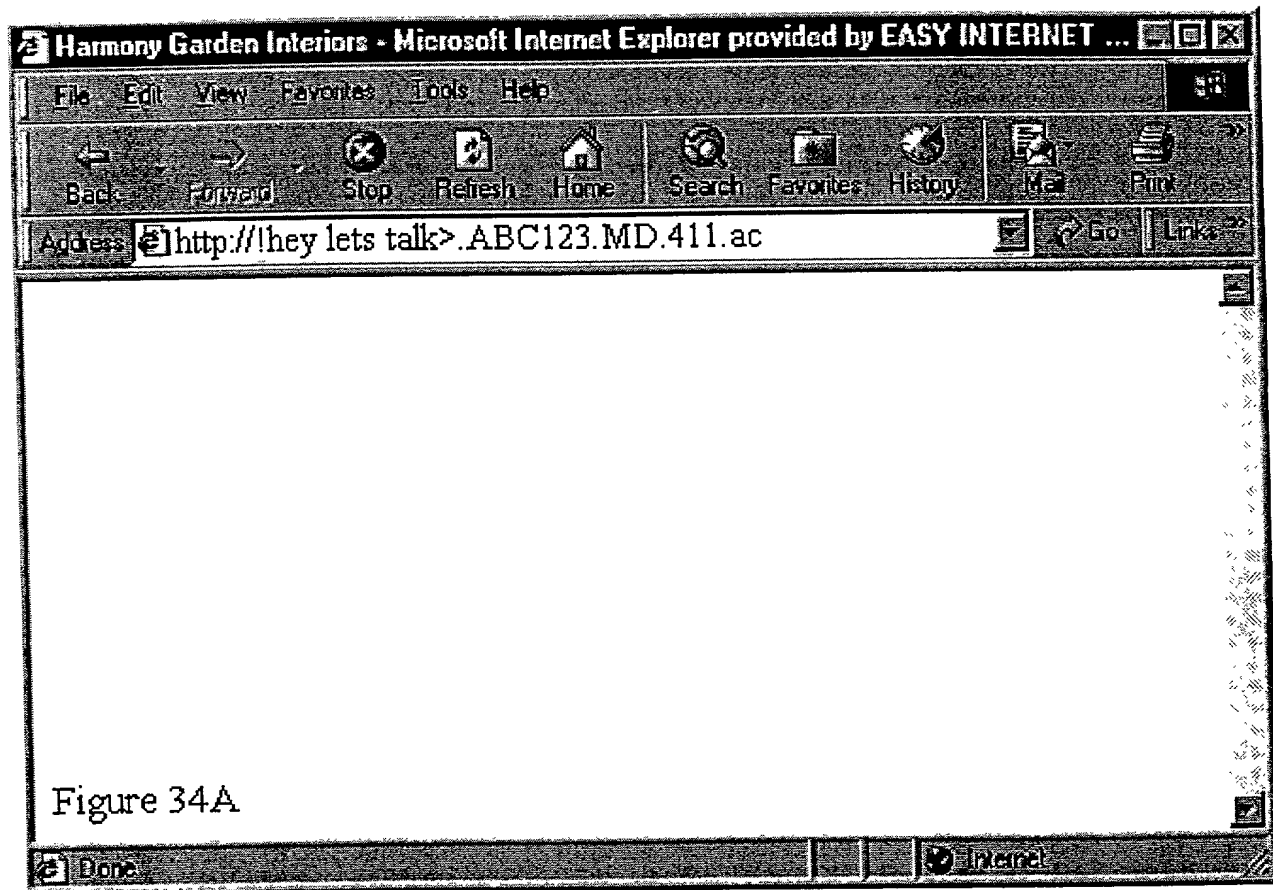


Figure 34A

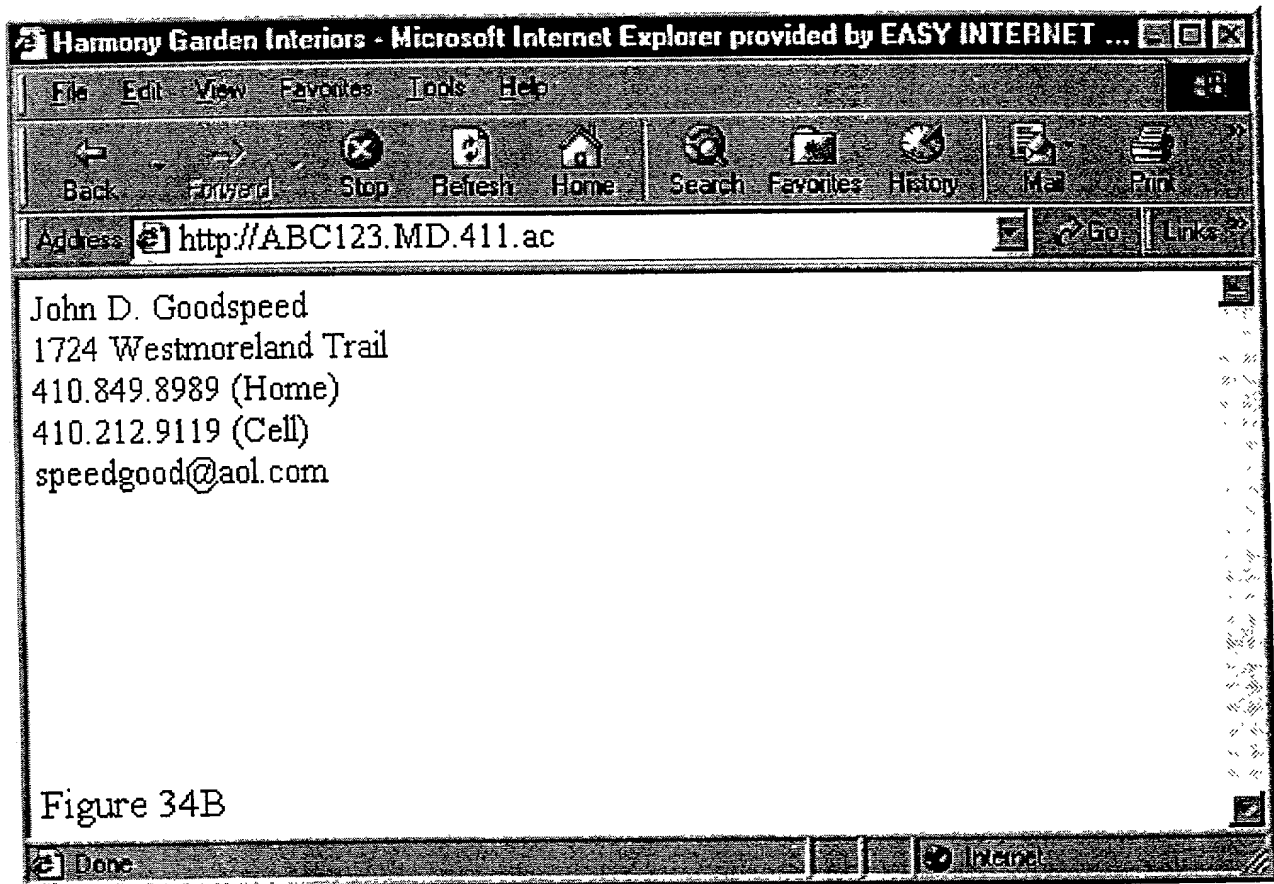


Figure 34B

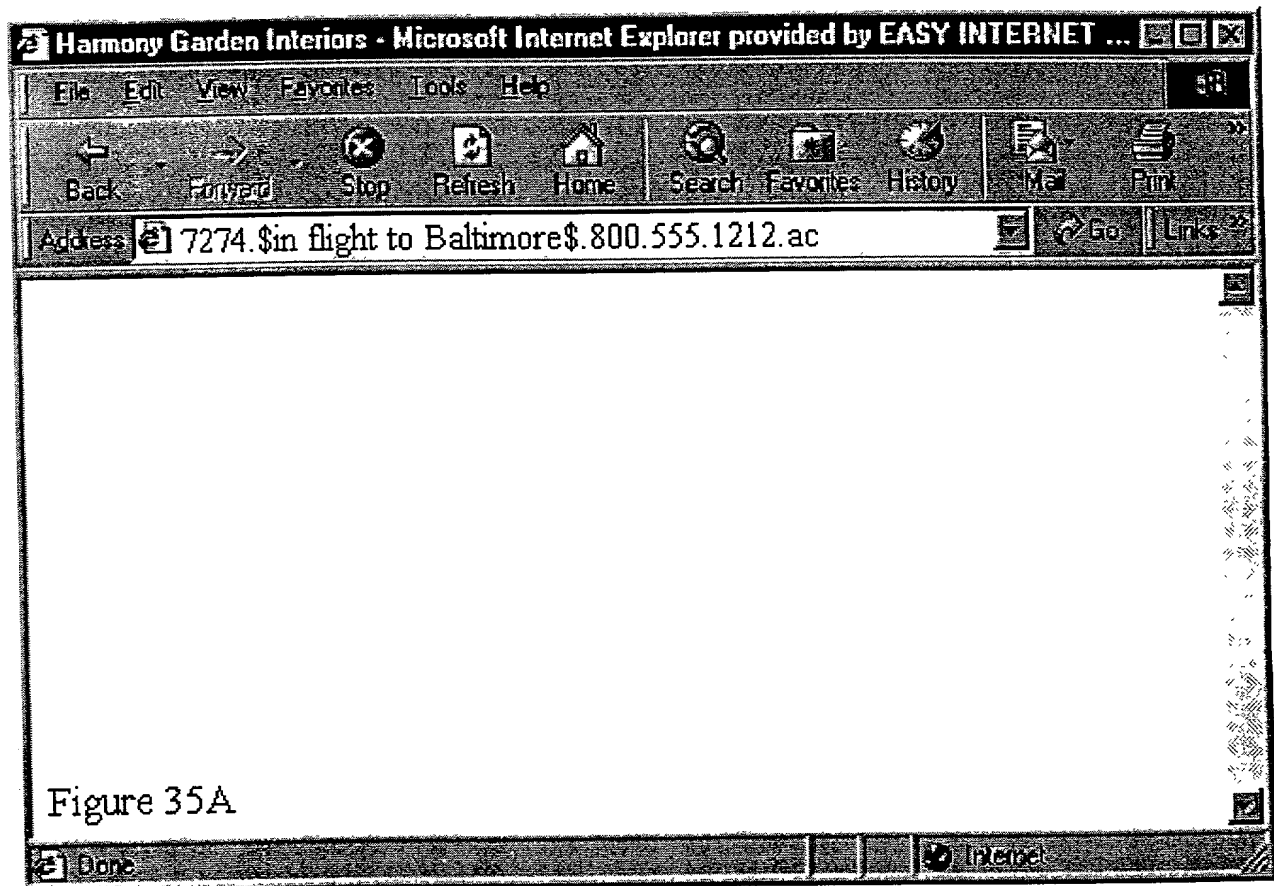


Figure 35A

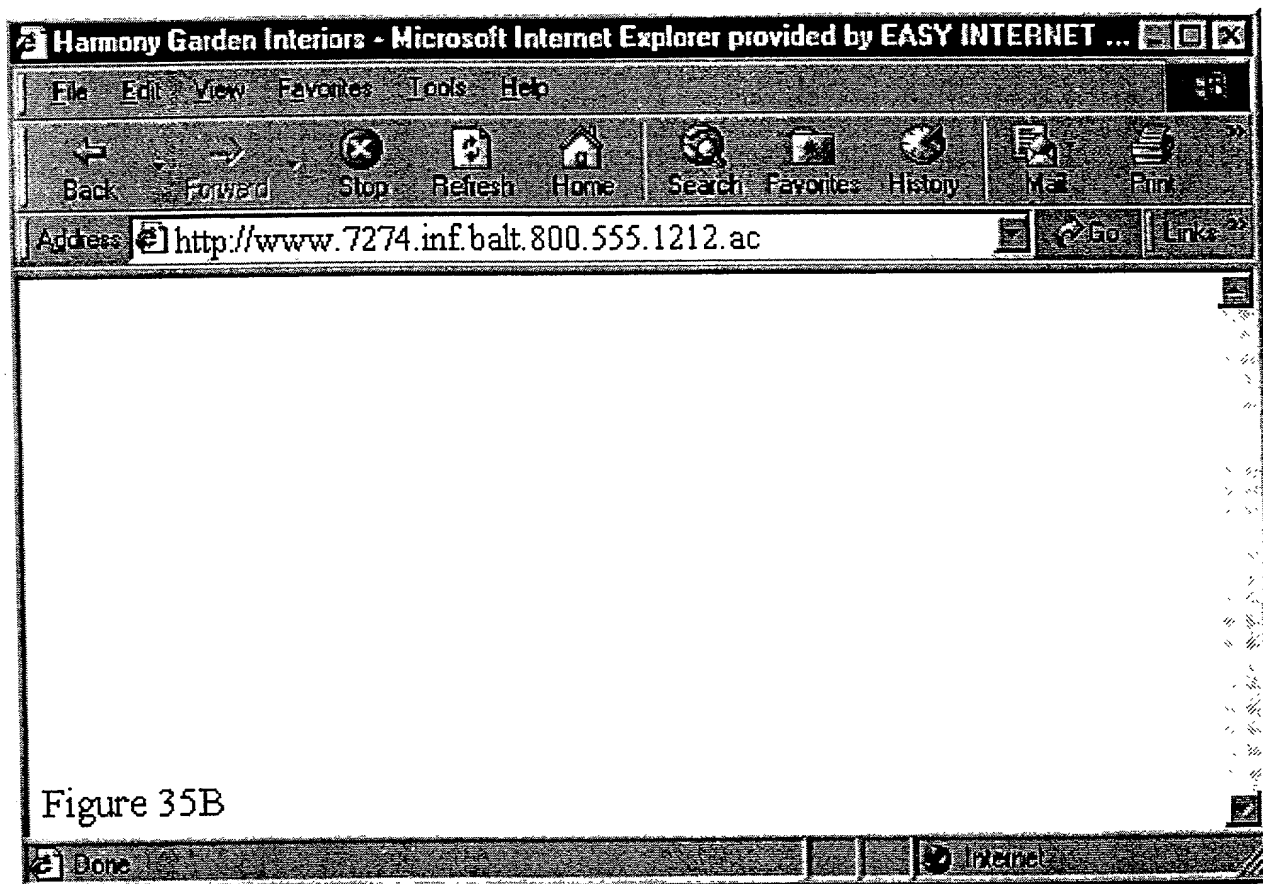
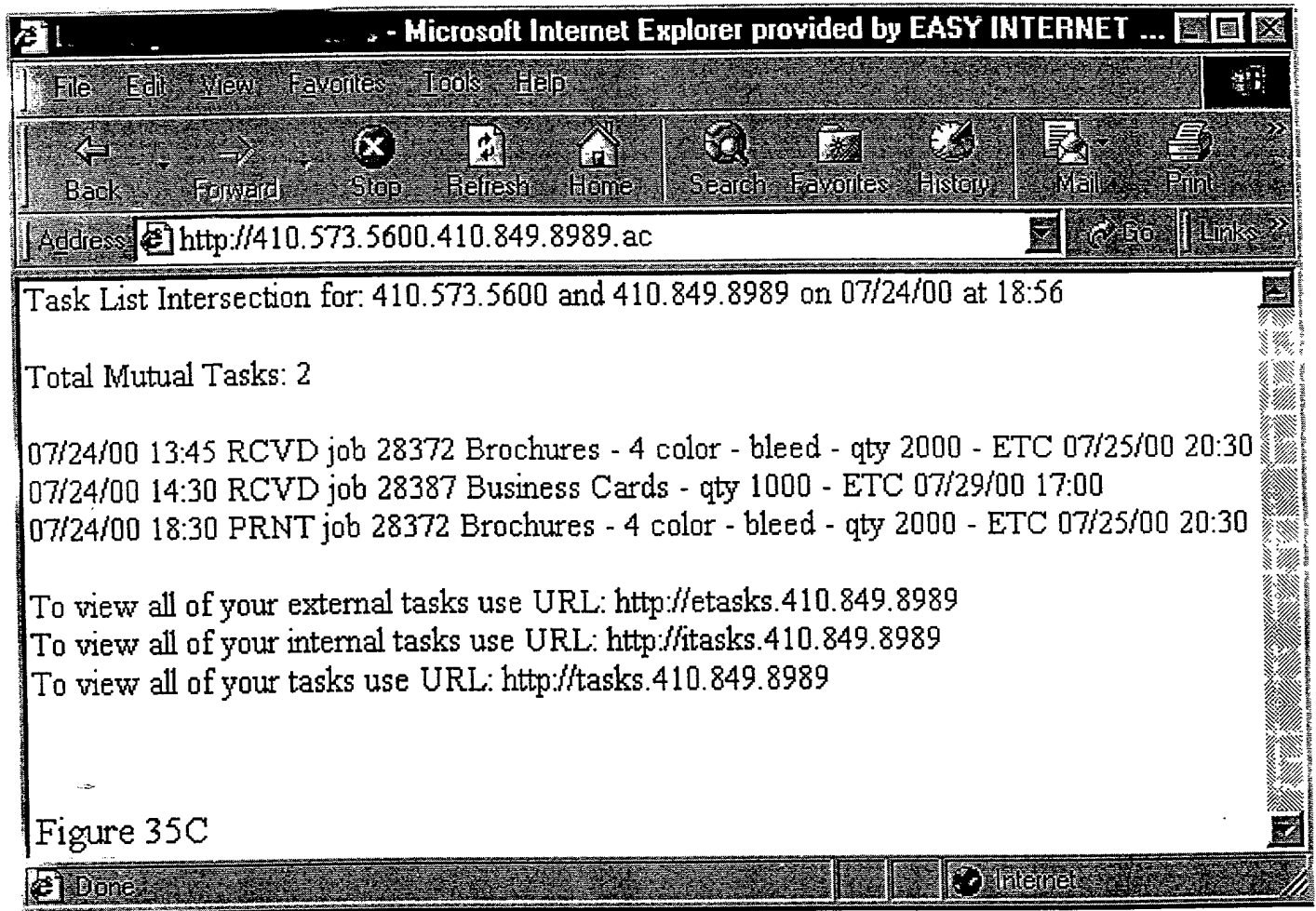
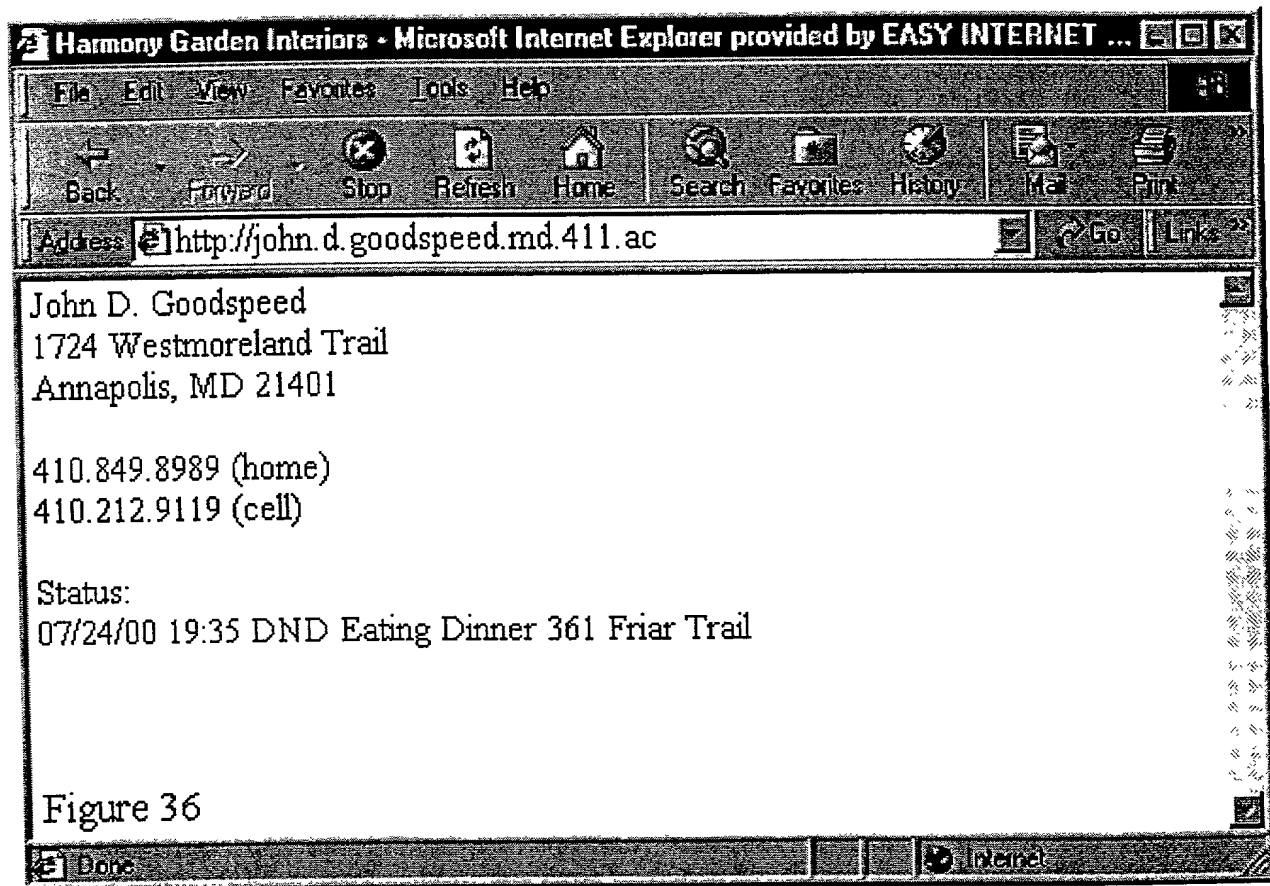


Figure 35B





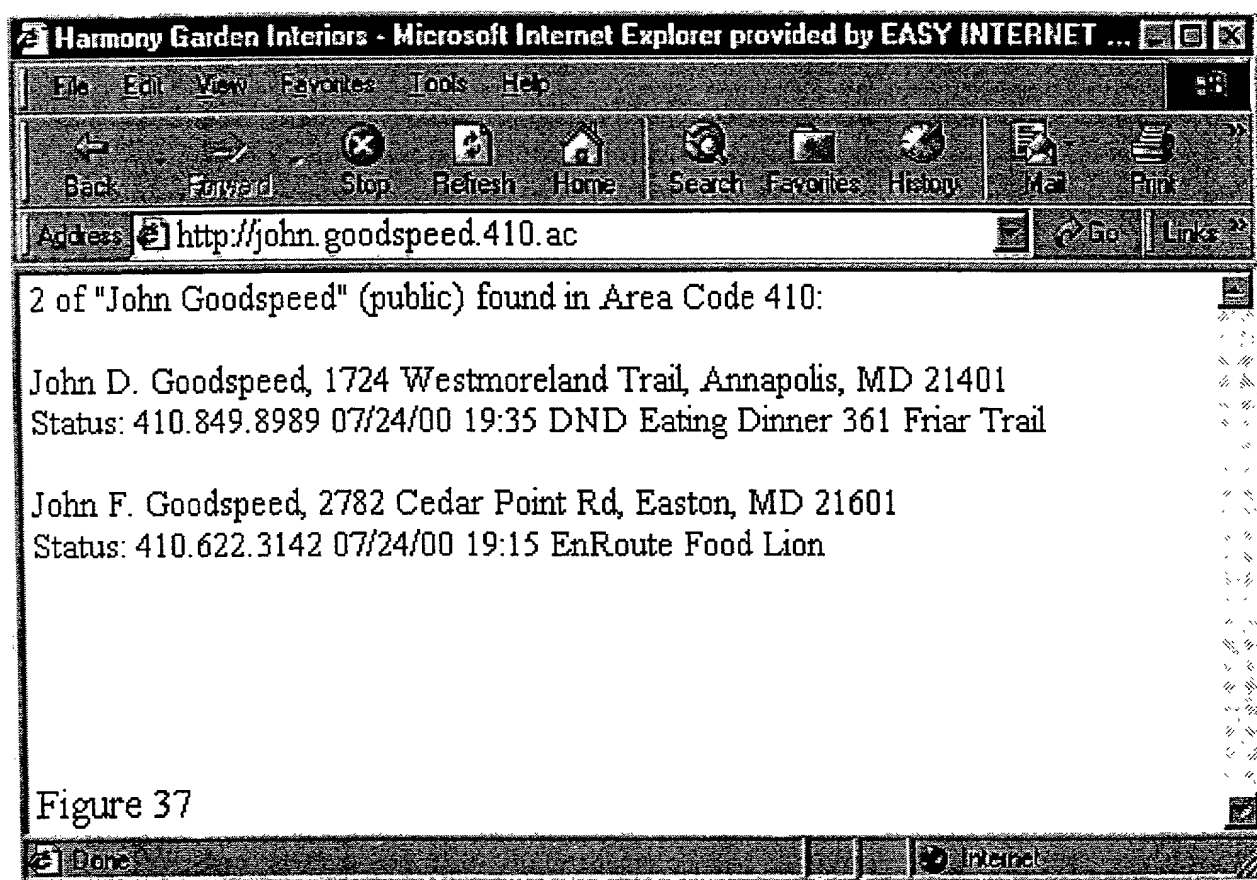


Figure 37

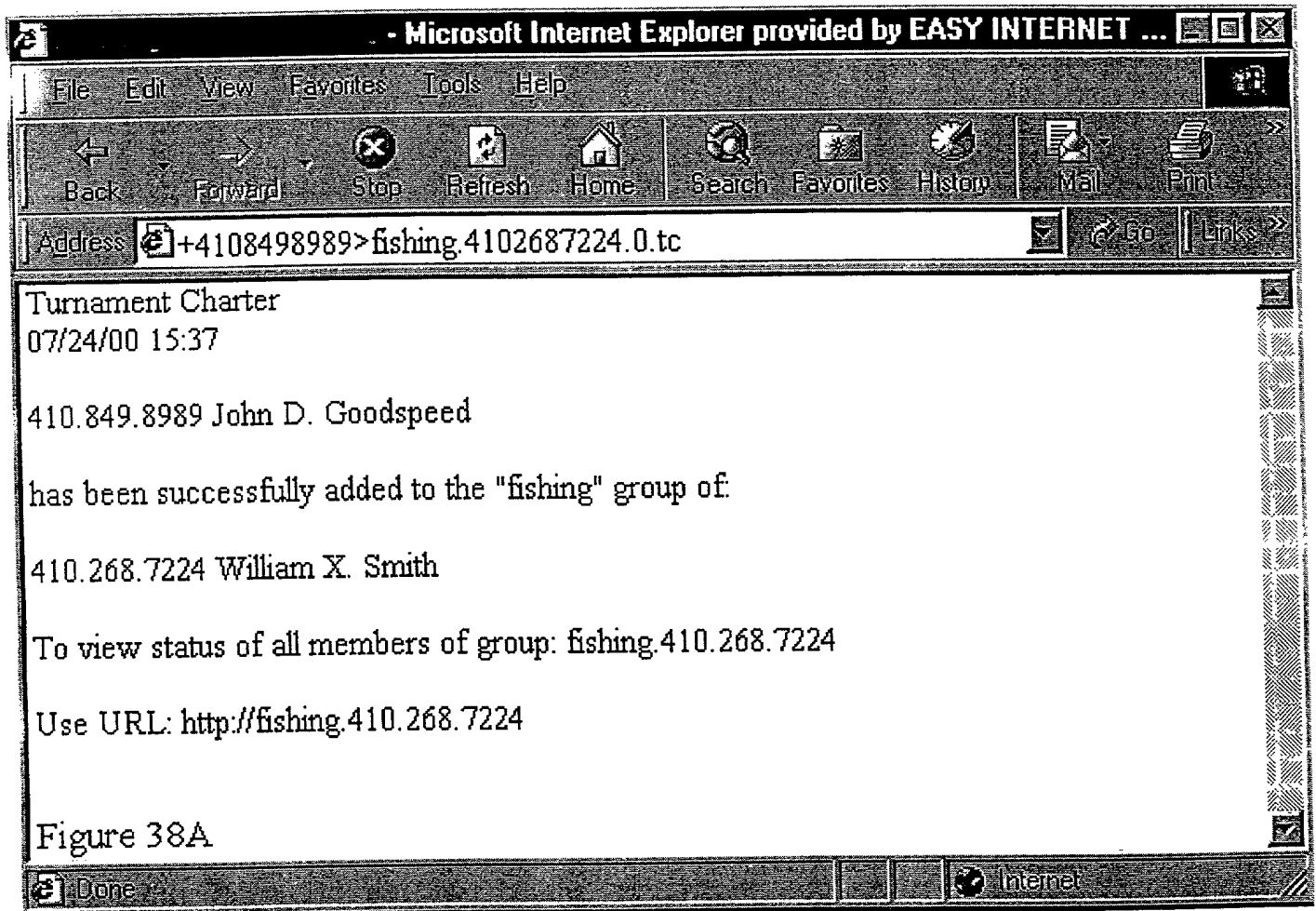


Figure 38A

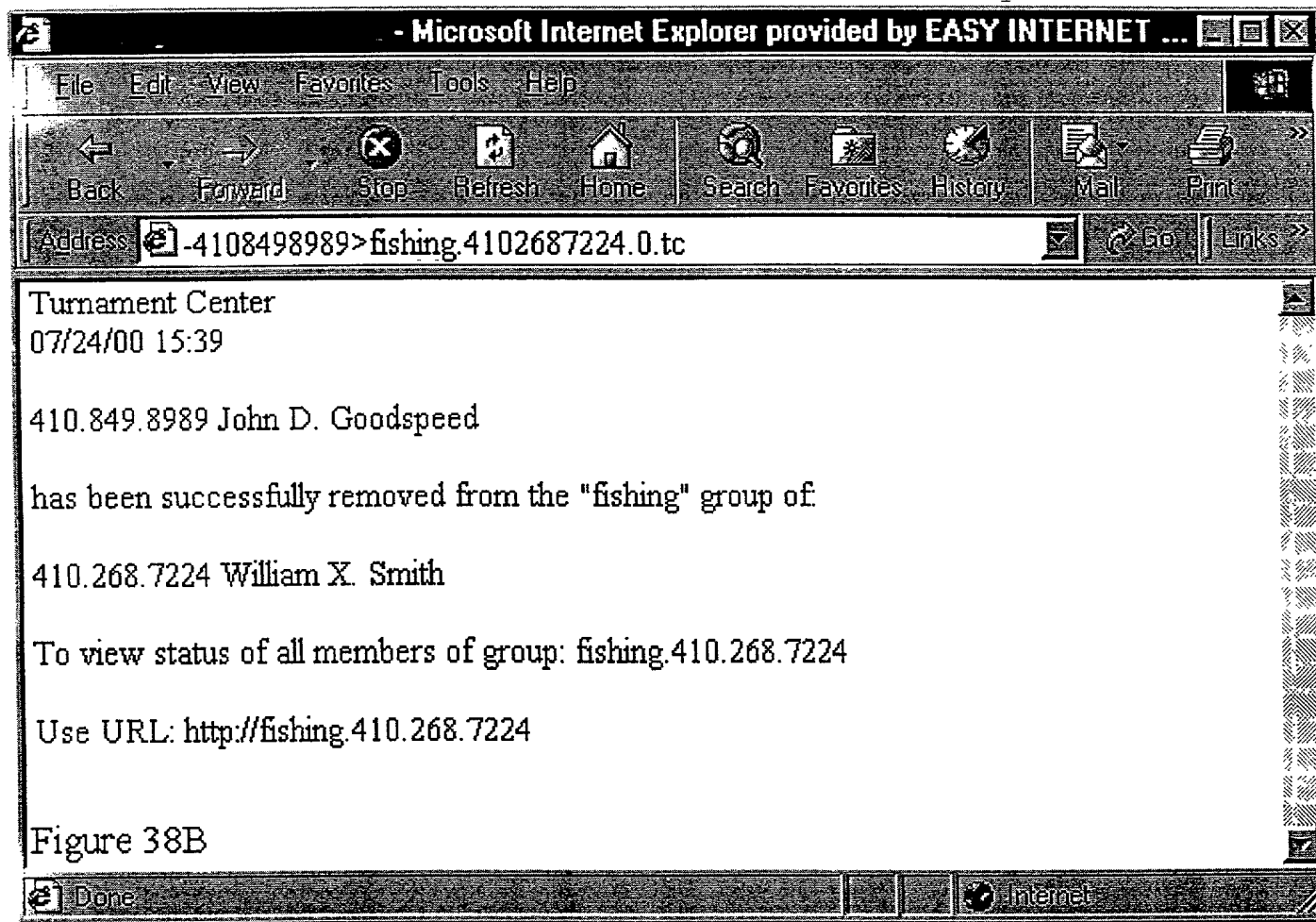


Figure 38B



Sign Up Now!



IC view

IC status

IC messaging

IC scheduling

If you already have a web site, register your business or home phone numbers here

Please enter up to three phone numbers that you wish linked to your web site or email addresses. Please do not attempt to register or reserve a phone number for which you lack proper authority. Registration is for a period of one year. Your first 30 days are free. You may re-register next year. You may change your web page links as often as you like. Your email address and a PIN are required so that we may verify future changes to your web site links. Your PIN needs to be exactly 4 digits long, don't forget your PIN as you will need it to process future changes to your web link. If you need to register additional telephone numbers simply return to this page after completing each registration. You can't beat the value of having your very own personal Internet phone number addresses for web and e-mail for less than \$2 per month!

Phone Number to Register #1: Ex: 800-555-4500

Phone Number to Register #2: Ex: 410.555.4500

Phone Number to Register #3: Ex: 410.555.4501

Link my phone number(s) above to this web site address:

You have the option to have any email sent to your ICUC Internet phone number (Ex: 555.4500@800) forwarded on to one or two personal or business email accounts. You may enter one, two or no forwarding email addresses. If you don't want the email forwarding option, just skip entering anything in either of the two email address fields, just leave them both blank. Forward e-mail sent to my phone number to the email forwarding addresses below

Forward my ICUC email to address #1
Ex: john2737@aol.com

Forward my ICUC email to address #2
Ex: john2737@hotmail.com

Method of Payment:

Bill me later ☒

Visa ☐

M/C ☐

AMX ☐

Discover ☐

Credit Card #

Expiration Date Month/Year Ex: 01/02

Billing Name
(if using a credit card, must be exact match)

Billing Address 1

Billing Address 2
(use this line only if needed)

Billing City State Zip

Billing Phone Number

Billing E-Mail Address

Pick a 4 digit Phone Number Personal Identification Number (PIN)

Your first 30 days are free. You will not be billed until 31 days after registration.
Pick just one of the following one (1) year registration options:

☒ \$23.95 I want the area code to trail the phone number like this: 555.1212.410.ac

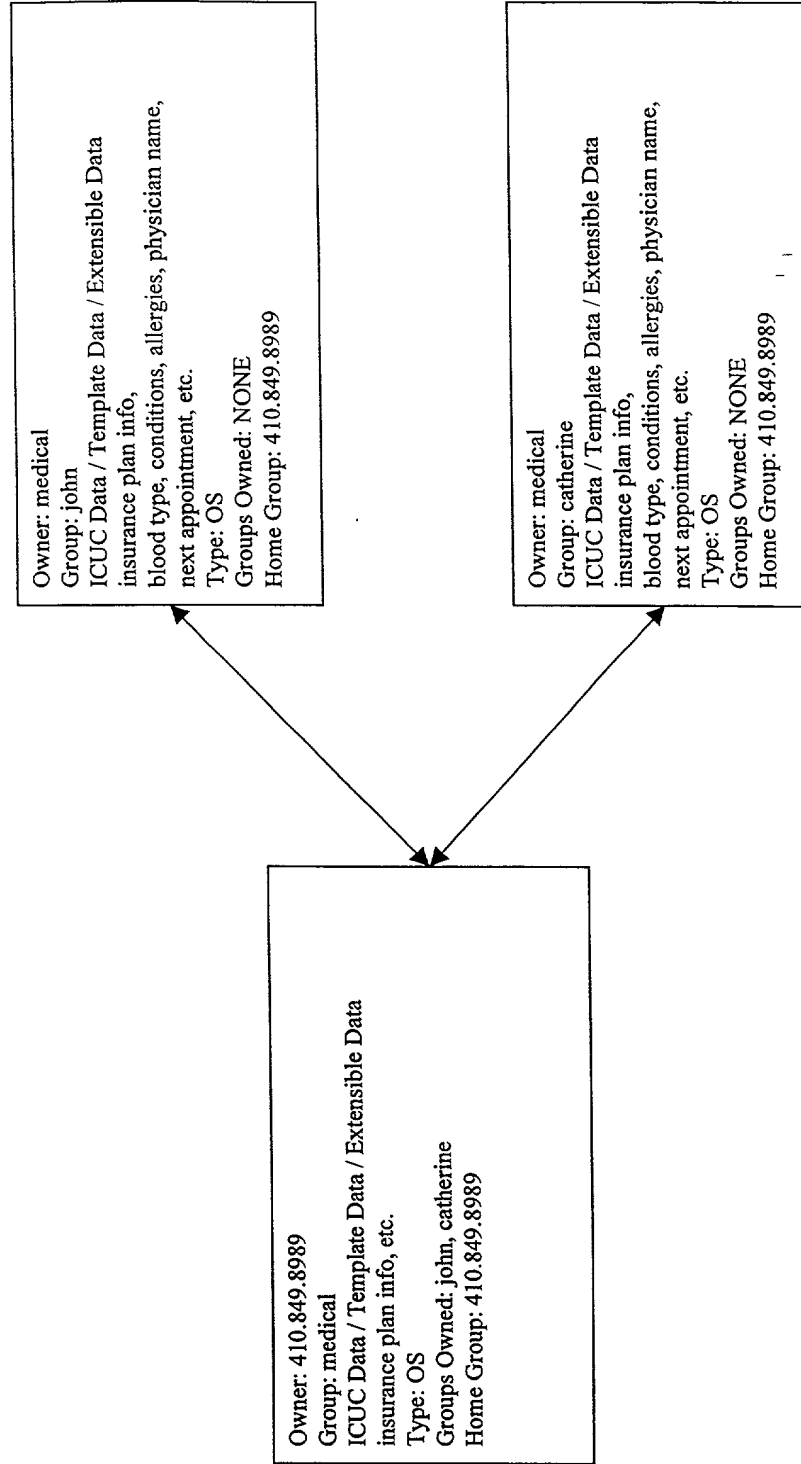
☐ \$35.95 I want the area code leading the phone number like this: 410.555.1212.ac

FIGURE 39

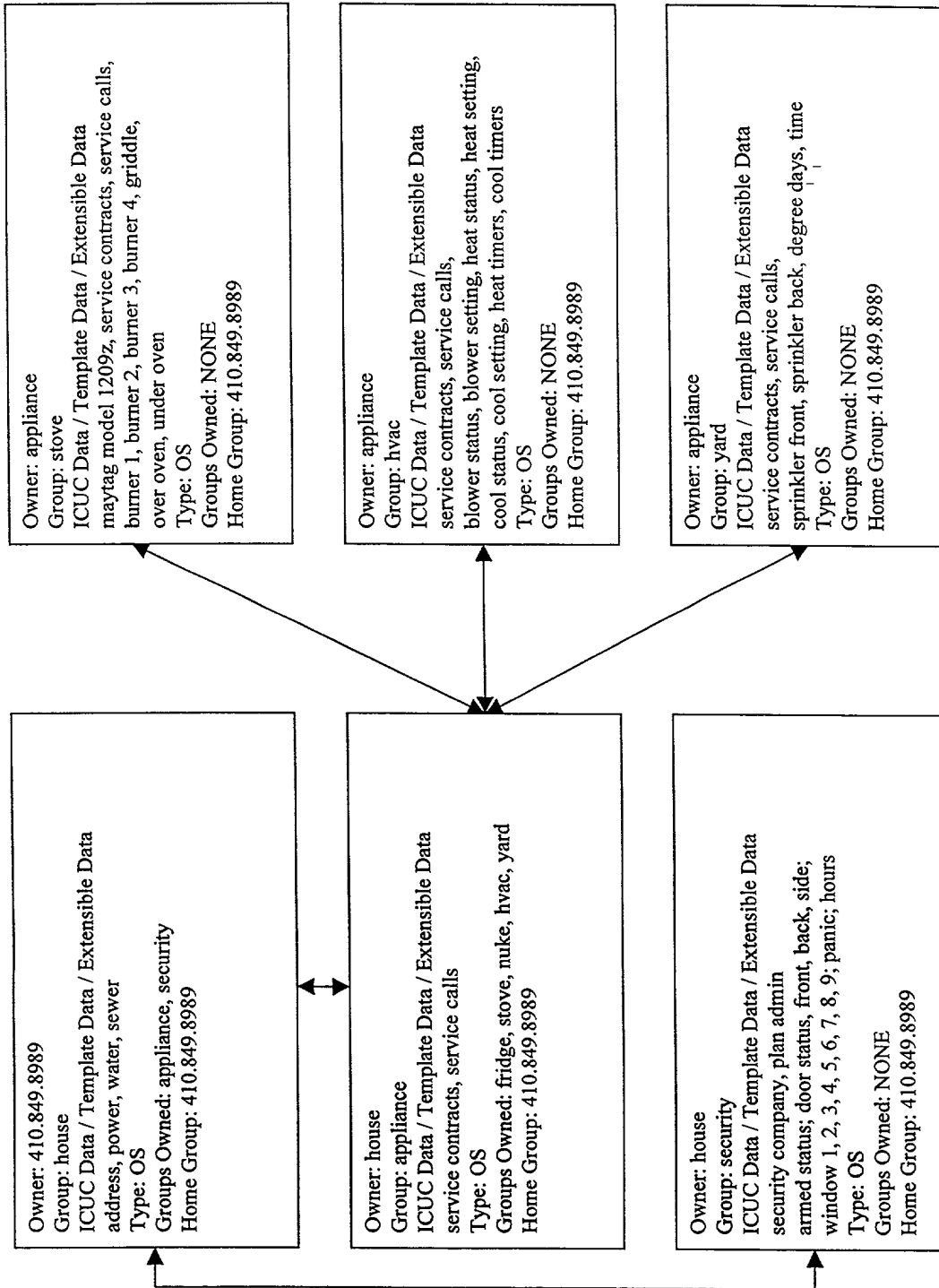
Group and Owner Relationships Figure #40

<p>Owner: 31168*ICUC Group: 410.849.8989 ICUC Data / Template Data Type: RM Groups Owned: medical,house,410.212.9119,410.849.3811 Home Group: 410.849.8989 Visit Group:</p>	<p>Owner: john Group: car ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: engine, brakes, tasks Home Group: 410.212.9119</p>
<p>Owner: 410.849.8989 Group: medical ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: john, catherine Home Group: 410.849.8989</p>	<p>Owner: car Group: engine ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: NONE Home Group: 410.212.9119</p>
<p>Owner: 410.849.8989 Group: house ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: appliance, security Home Group: 410.849.8989</p>	<p>Owner: car Group: brakes ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: NONE Home Group: 410.212.9119</p>
<p>Owner: 410.849.8989 Group: 410.212.9119 ICUC Data / Template Data Type: OM Groups Owned: john Home Group: 410.212.9119 Visit Group:</p>	<p>Owner: house Group: appliance ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: fridge, stove, nuke, hvac, yard Home Group: 410.849.8989</p>
<p>Owner: 410.212.9119 Group: john ICUC Data / Template Data / Extensible Data Type: OS Groups Owned: car, boat Home Group: 410.212.9119</p>	<p>RM: Root Master OM: Owner Master OS: Owner Subordinate</p>

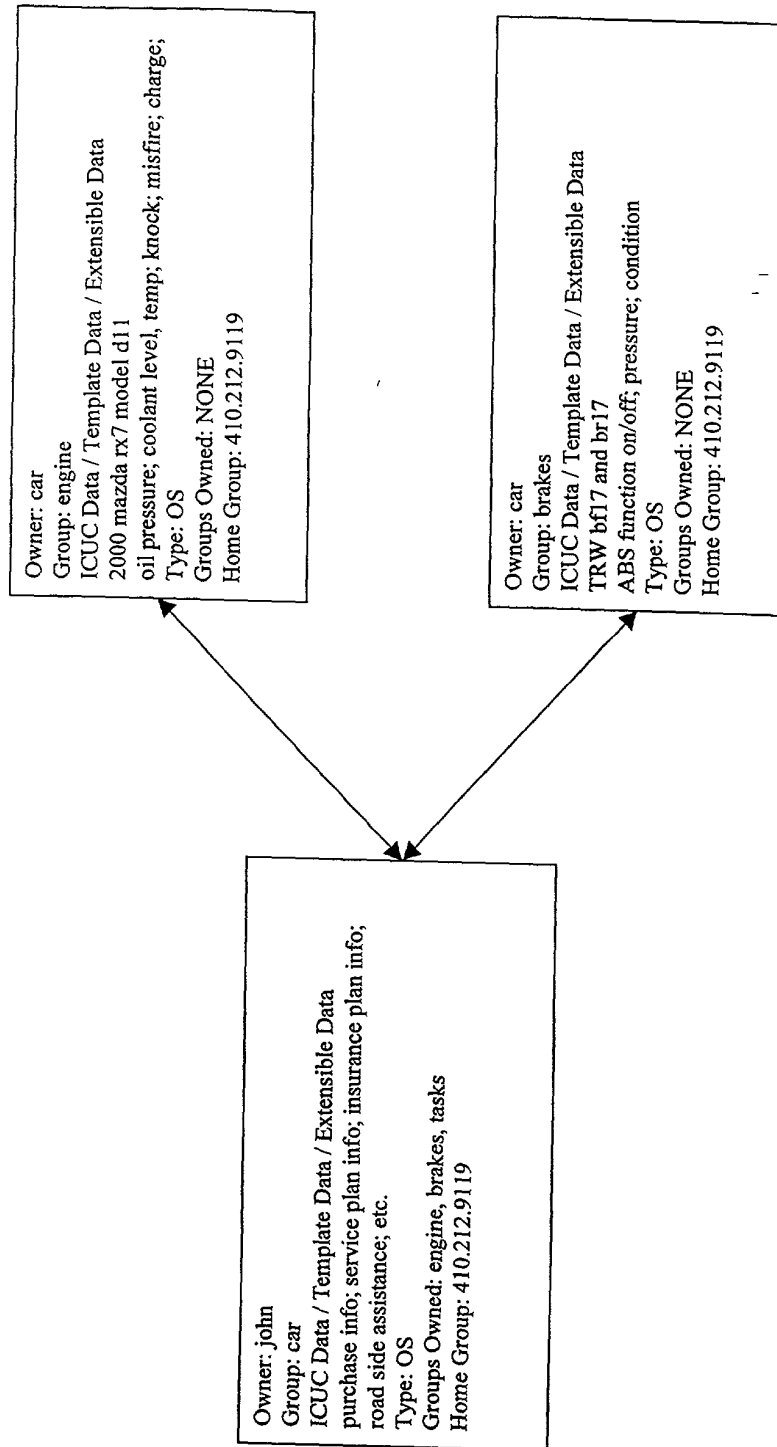
Group and Owner Relationships Figure #41



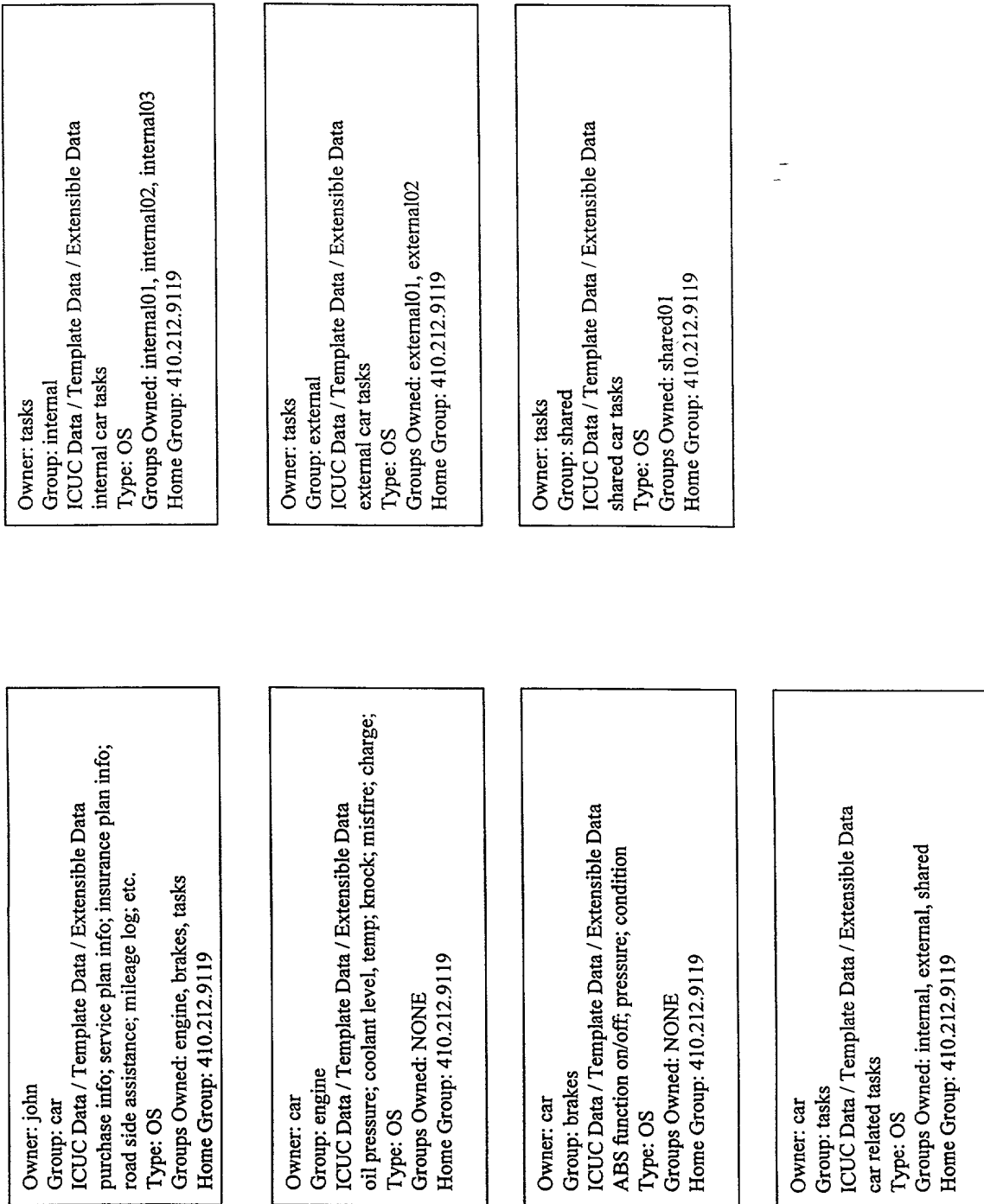
Group and Owner Relationships Figure #42



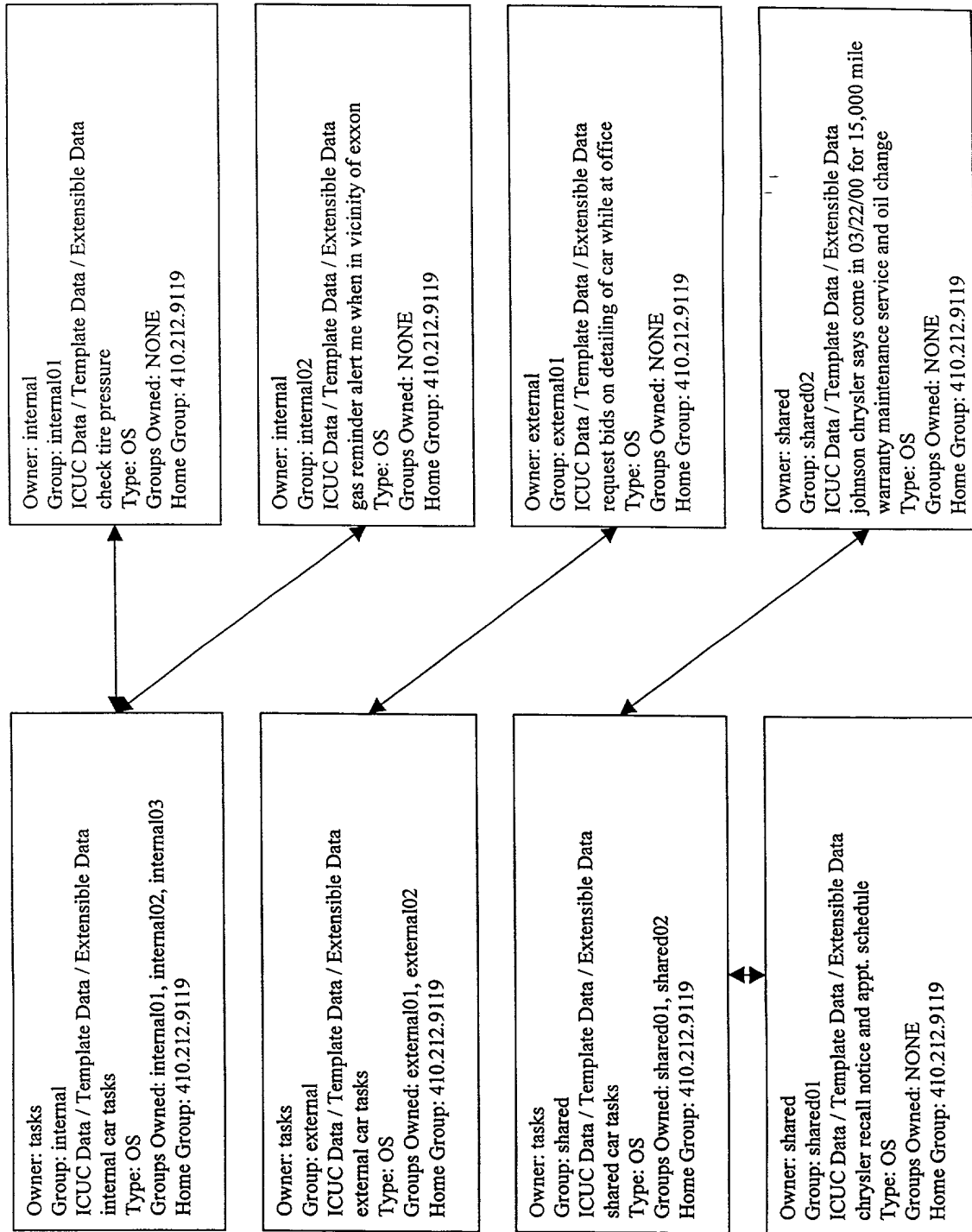
Group and Owner Relationships Figure #43



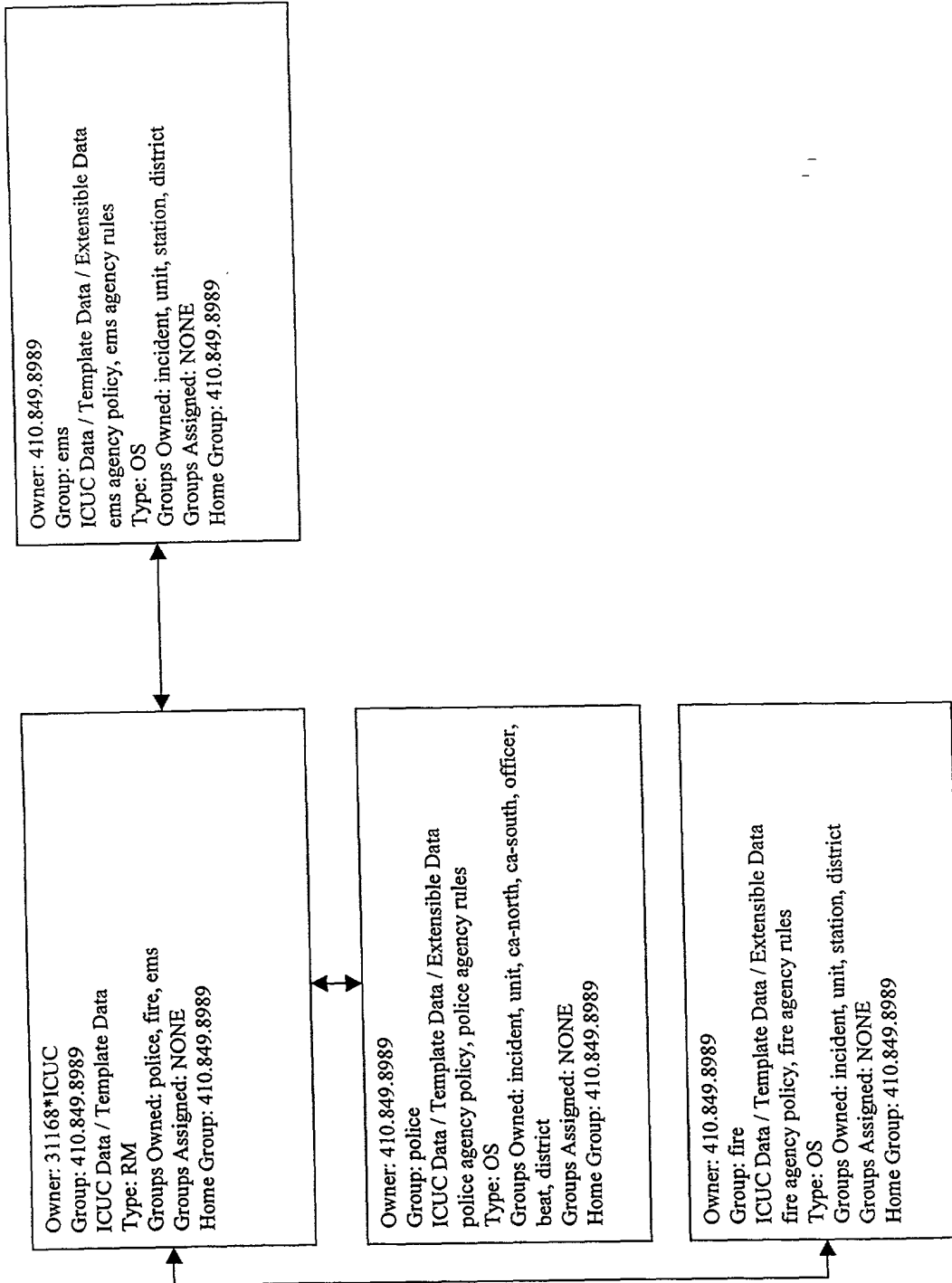
Group and Owner Relationships Figure #44



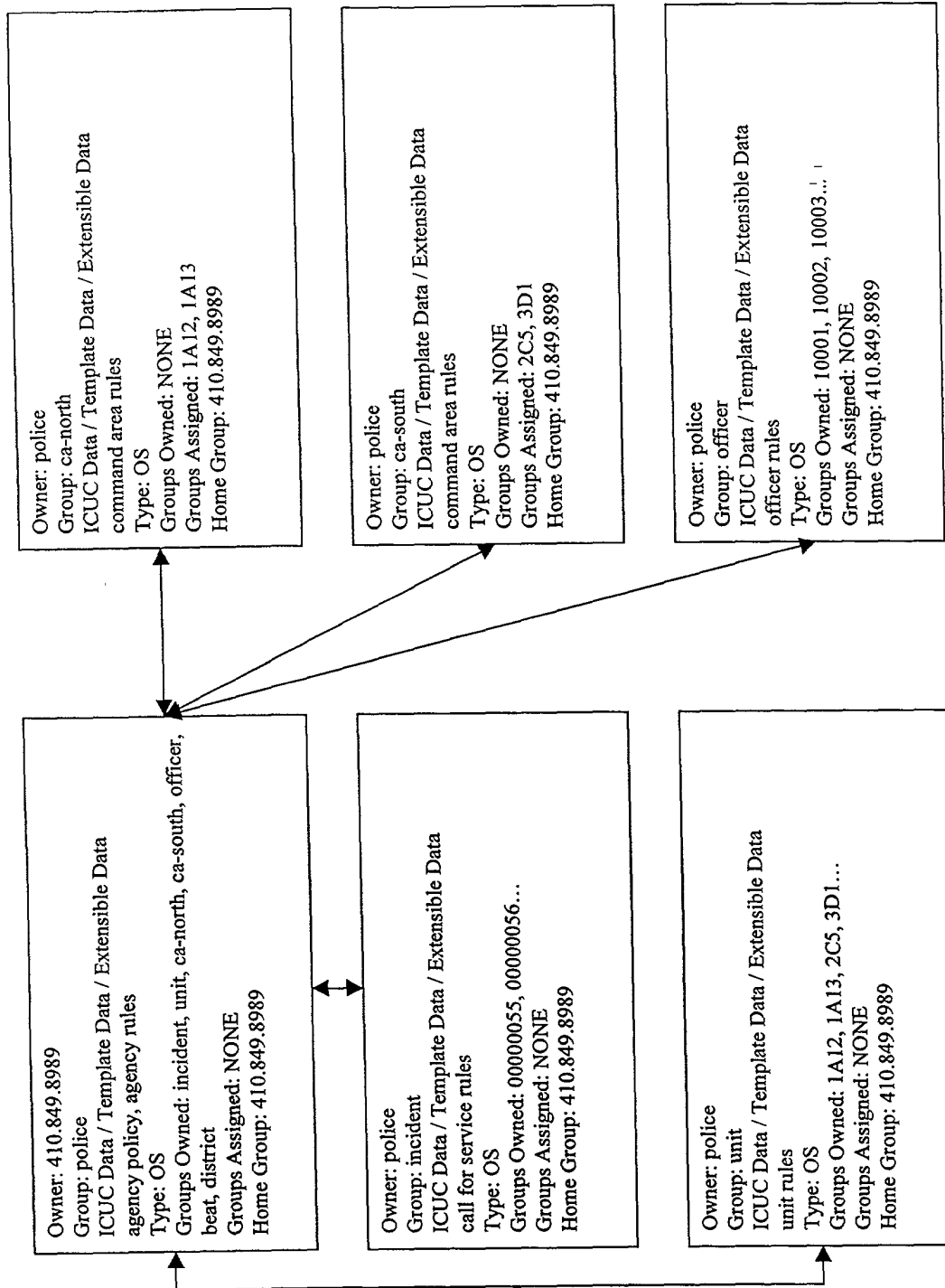
Group and Owner Relationships Figure #45



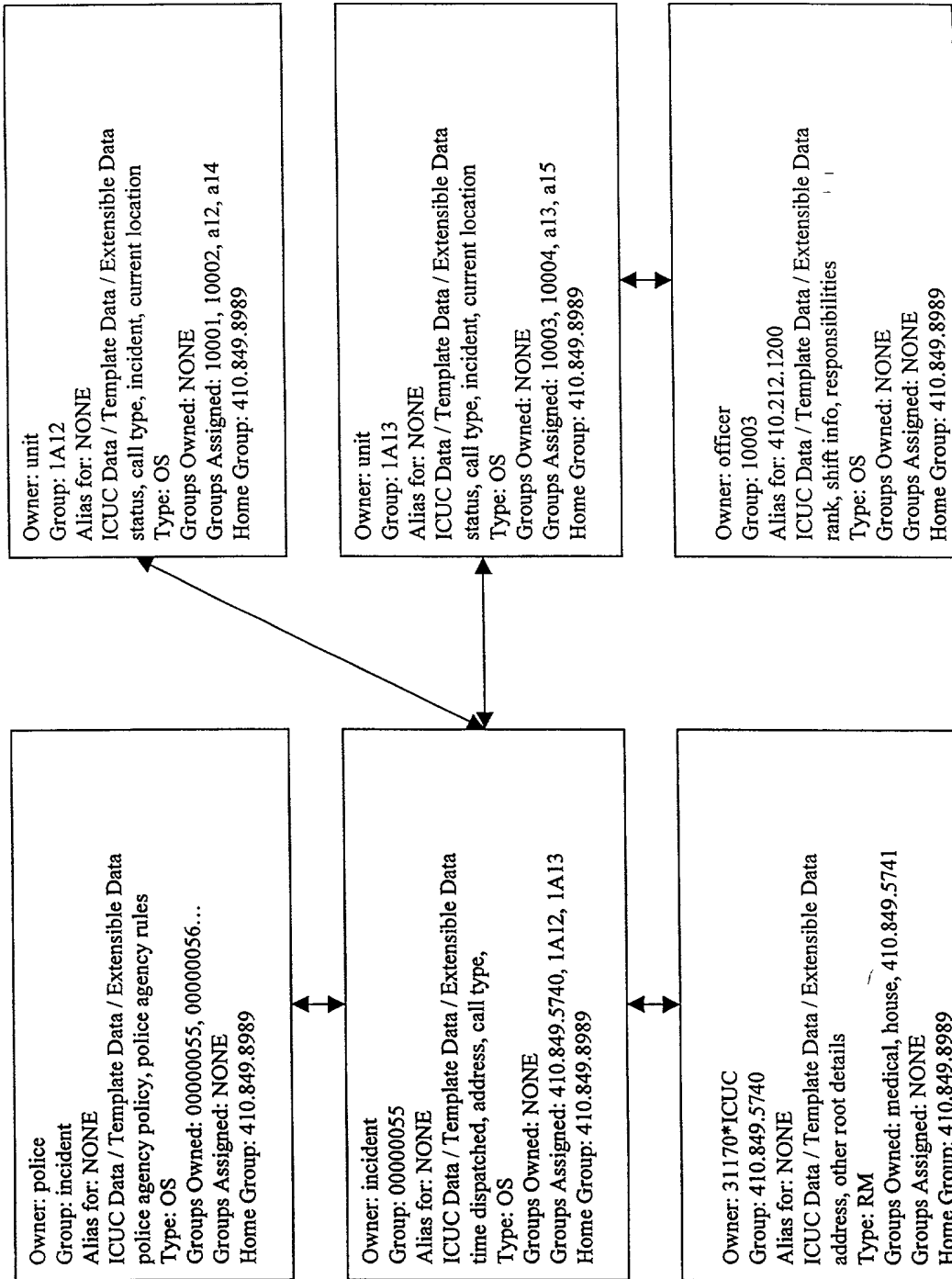
Group and Owner Relationships Figure #46



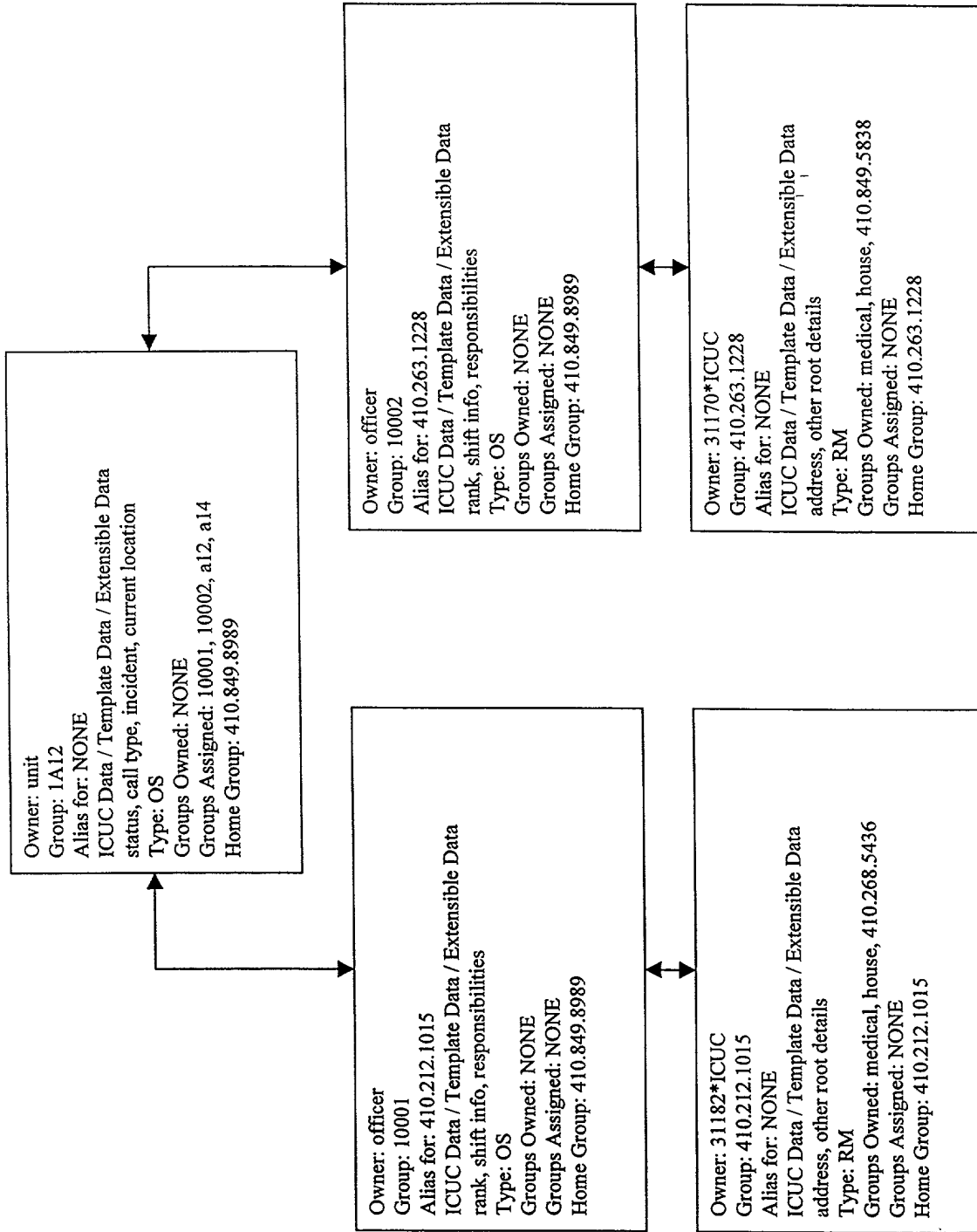
Group and Owner Relationships Figure #47



Group and Owner Relationships Figure #48



Group and Owner Relationships Figure #49



Group and Owner Relationships Figure #50

